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A QUARTER OF A CENTURY

OF

PRICES

BY

ELLSWORTH DAGGETT,

SALT LAKE CITY, UTAH.

1896.

Price 25 Cents.———



# A QUARTER OF A CENTURY OF PRICES

AN ATTEMPT TO DEFINE THE EXTENT AND MAGNITUDE OF  
THE MOVEMENT OF PRICES OF TWENTY-ONE OF  
THE PRINCIPAL COMMODITIES OF THE  
UNITED STATES SINCE 1870,

ALSO,

TO ILLUSTRATE BY DIAGRAMS VARIOUS SYSTEMS OF INDEX NUMBERS,  
TO COMBINE THEM INTO A GENERAL RECORD OF A MOVEMENT  
OF ALL PRICES AND TO NOTE THE RELATION OF LEGIS-  
LATION TO THE MOVEMENT OF PRICES.

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SALT LAKE CITY, UTAH.

52192-B<sup>2</sup>-1  
TRIBUNE JOB PRINTING COMPANY, PRINTERS.  
1896.

HB 113

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This paper is an attempt to define the extent and magnitude of the movement of prices of twenty-one of the principal commodities of the United States since 1870, and to call attention to some of the more important aggregate effects of the movement.

Also to plainly illustrate by diagrams the various systems of index numbers that have come to the writer's attention, to combine them into a general record of a movement of all prices, and to note the relation of legislation to the movement of prices.

It is a presentation not of argument or theory but of facts only, believed to be at this time particularly useful, and in a form which it is hoped will prove intelligible and suggestive.

Salt Lake City, Utah, Sept. 10th, 1896.

ELLSWORTH DAGGETT.



# A Quarter of a Century of Prices

BY

ELLSWORTH DAGGETT,

SALT LAKE CITY, UTAH.

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The twenty-one United States commodities herein specially and in detail considered are:

GRAIN GROUP.

Wheat,  
Corn,  
Oats,  
Barley.

POTATO GROUP.

Potatoes,  
Hay,  
Tobacco.

TEXTILE GROUP.

Cotton,  
Wool.

FARM ANIMAL GROUP.

Horses,  
Mules,  
Milch cows,  
Oxen, etc.,  
Sheep,  
Swine.

METAL GROUP.

Pig Iron,  
Copper,  
Silver.

HYDRO-CARBON GROUP.

Anthracite Coal,  
Bituminous Coal,  
Petroleum.

In Tables 1 to 21 will be found the amount or number of bushels, pounds, etc., the currency and gold prices per bushel, pound, etc., and the total gold values of each of the products considered, for the years 1870 to 1894 inclusive; and in the form of foot notes the work and usually the page from which the original figures were obtained. When statistics as to spot values are available for the entire period they have been used,

but with mineral products of which the government record is not complete for the entire period, other presumably reliable quotations have been used. The yearly prices therefore of iron, copper, anthracite and bituminous coal, petroleum, and also for wool, are not the spot values, nor can it be said that they are the prices at which the whole crop actually sold. They are, however, the ruling prices of important, usually the most important, markets, apparently determined in each case by methods uniform for the entire period and regarded as worthy of a place in the government statistical publication. Quotations of copper prior to 1880 were of necessity of Lake copper, a brand until lately commanding a slightly higher price than any other.

The twenty-one commodities given include every product, the value of which amounted to \$25,000,000 in any one year since 1870, and of which the statistics of amount and values are to be found in government or other publications accessible to the writer.

It may also be mentioned that farm animals are quoted for the 1st of January of each year and doubtless includes many individuals previously or afterwards quoted.

The quantity therefore of farm animals produced in any one year is much less, perhaps not more than half the amount quoted. This consideration affects quantity only.

The basis upon which the currency values have been reduced to gold is that given in the report of the Statistician of the U. S. Department of Agriculture for 1893, page 559, viz.:

|  |   |   |      |   |   |
|--|---|---|------|---|---|
| In 1870, 1 dollar paper=86 cents gold. |   |   |      |   |   |
| " 1871, "                              | " | " | 89.5 | " | " |
| " 1872, "                              | " | " | 89   | " | " |
| " 1873, "                              | " | " | 87.9 | " | " |
| " 1874, "                              | " | " | 89.9 | " | " |
| " 1875, "                              | " | " | 87   | " | " |
| " 1876, "                              | " | " | 89.8 | " | " |
| " 1877, "                              | " | " | 95.4 | " | " |
| " 1878, "                              | " | " | 99.2 | " | " |

In order that these commodities may be combined either by groups or altogether it is necessary that they should be reduced to a common denominator or uniform measure of value.

To do this it is necessary to find for each commodity the number of bushels, tons, etc., which at the average price per bushel, ton, etc., for the entire 25 years should equal a common fixed amount. This amount is therefore the common average value of what is here called the *Commodity Unit* of all of the articles taken, and is for reasons which will later appear, taken at 84 7-10 cents, or more exactly 84.736 cents.

That number of bushels, tons, etc., of any commodity which, if multiplied by its average gold price per bushel, ton, etc., for the entire 25 years, would amount to 84 7-10 cents becomes the measure of quantity of the assumed unit of such commodity.

Below is given a table summarized from Tables 1 to 21, in the second column of which is the total product or amount in bushels, tons, etc., of each of the commodities herein considered for the period of 25 years from 1870 to 1894 inclusive.

In the third column is given the total gold value of this product or amount and in the fourth column the average price per bushel, ton, etc. This latter being of course found by dividing the total value of each commodity by the total amount. In the fifth column is the amount of bushels, tons, etc., of each commodity which, at its average price per bushel, ton, etc., for the period, would equal 84 7-10 cents.

These quantities of the several commodities contained in the fifth column being equal in value to the same thing are therefore equal in value to each other for a period of 25 years, 1870 to 1894 inclusive.

If now we adopt for each commodity the corresponding quantity in bushels, tons, etc., appearing in column five, as the measure of quantity of our commodity unit, and compute two new columns of numbers and price of the commodity unit for each year of the period, we will have a series of tables as shown in last two columns of Tables 1 to 21, based upon a unit of common value, for the entire 25 years.

By means of these new tables all the different commodities, being expressed in units of the same value, may be combined in any desired manner, or for any desired period within that portion of history covered by the 25 years, and presumably without material error, for some years either before or after the period.

TABLE 0.

Summary of Tables 1 to 21 inclusive. Showing total amount, value and average price of 21 commodities for 1870 to 1894, inclusive, and also the number of bushels, tons, etc., in the commodity unit.

| Commodity       | Amount<br>bushels, tons, etc. | Total Gold Value  | Average<br>Price per<br>bushel,<br>ton, etc. | Commodity<br>Unit or No. of<br>bushels, tons,<br>etc., worth<br>84.7 cents |
|-----------------|-------------------------------|-------------------|--|--|
| Wheat.....      | 10 001,471,005 bu.            | \$ 8,347,768,063  | \$ .835                                      | 1.015 bu.  |
| Corn.....       | 36,890,124,261 "              | 14,682,163,419    | .398   | 2.129 "  |
| Oats.....       | 12,212,361,948 "              | 3,891,277,989     | .319   | 2.656 "  |
| Barley.....     | 953,419,180 "                 | 569,742,537       | .597   | 1.418 "  |
| Potatoes.....   | 3,208,374,688 "               | 1,652,085,613     | .515   | 1.645 "  |
| Hay.....        | 780,967,778 tons              | 7,497,287,363     | 9.60   | .088 ton   |
| Tobacco.....    | 7,911,434,600 lbs.            | 638,358,449       | .081   | 10.46 lbs.   |
| Cotton.....     | 68,530,179,395 "              | 6,483,124,724     | .095   | 8.92 "   |
| Wool.....       | 6,011,960,384 "               | 2,142,095,997     | .356   | 2.380 "  |
| Horses.....     | 289,353,915 No.               | 18,593,912,136    | 64.26  | .0132  |
| Mules.....      | 45,237,623 "                  | 3,397,895,190     | 75.11  | .0113  |
| Milch Cows...   | 325,834,520 "                 | 8,325,407,536     | 25.55  | .0332  |
| Oxen, etc. .... | 642,852,338 "                 | 11,440,626,202    | 17.60  | .0482  |
| Sheep.....      | 1,034,537,105 "               | 2,350,264,440     | 2.245  | .3774  |
| Swine.....      | 978,690,595 "                 | 4,922,774,040     | 5.027  | .1686  |
| Pig Iron.....   | 114,182,222 tons              | 2,330,250,696     | 20.41  | .0415 ton  |
| Copper.....     | 3,106,603,955 lbs.            | 408,774,460       | .132   | 6.419 lbs.   |
| Silver.....     | 936,140,893 ozs.              | 976,594,603       | 1.041  | .814 ozs.  |
| Anthracite Coal | 851,634,437 tons              | 2,996,776,591     | 3.52   | .2407 ton  |
| Bitumin. ....   | 1,650,485,581 "               | 4,185,600,269     | 2.54   | .3336 "  |
| Petroleum.....  | 572,176,370 bbs.              | 511,143,728       | .893   | .9489 bbs.   |
| Total, -        |                               | \$106,343,924,045 |  |  |

The price per unit and number of commodity units for each commodity and for every year, 1870 to 1894, are given in the last two columns of Tables 1 to 21. The total values used in connection with them being of course those of the product or crops for the same year or period. The number of commodity units for any commodity in any year given in the table was found by dividing the total number of bushels, tons, etc., in corresponding crop or product by the number of bushels, tons, etc., in the commodity unit for that commodity, or to be more literal by multiplication by the corresponding reciprocal carried out to five or more places. The price per commodity unit may be found by dividing the total value by the number of commodity units.

It is therefore true with every commodity in each year that the number of commodity units multiplied by the price per commodity unit produces the total value of the crop.

As indicated above it will be found with each commodity that the relation between the price per commodity unit or the number of commodity units, in any period as compared with any other period, is precisely the same as that between the gold price per bushel, ton, etc., or the number of bushels, tons, etc. for the same two periods.

Hence the statement of the gold value of the crop and the price per commodity unit and number of commodity units in the same serves perfectly for the study of prices of single commodities and renders it possible in addition to compare one with another and to combine any or all of them in any desired manner or for any desired period, between and including 1870 and 1894.

In table 22 is shown for each year, 1870 to 1894 inclusive, the combination of the number of units and the gold value of all 21 commodities.

In this last named table the sum of the values of the 21 commodities for the years 1870, 1871, 1872, and the total number of commodity units in the same are given, and it will be noticed that the amounts agree, or in other words, that the average value per unit of all the commodity units for the period 1870, 1871 and 1872, are exactly \$1.00.

It was to produce this result that the average value of the commodity unit was taken at 84 7-10 cents. The equation by which this result was reached, a simple one as to terms, which will readily suggest itself need not here be given. It involved many reductions of large numbers used.

It will be observed that taking the average price per commodity unit of all 21 commodities used equal to \$1.00 for the period 1870, 1871 and 1872, means the adoption for the purpose of this paper of that period as a period of comparison during which the average of all prices under consideration was \$1.00 per unit. Outside of this period prices, either of single or combined commodities, are expressed in figures which indicate at a glance and without mental effort their relation to the true average price for the period of comparison of all commodities.

The reduction to a common denominator, or to a unit of uniform value has been, for reasons given below, performed only from the beginning of 1870 to the end of 1894, and during this period subject to slight errors herein mentioned. The value and prices of commodities for 1895 have not entered into the equation by which the value of the commodity unit was found. To include the new figures would necessitate an entirely new calculation involving many hundred reductions to produce a result differing so slightly from that given here as to be invisible in the diagram and of no practical moment in the table. The quantity of each commodity in the commodity unit is taken for 1895, the same as for previous years.

The calculation of the value of the commodity unit, and of the number and price of the commodity unit, for each commodity and for each year, was done in April and early May, 1895, before the mineral statistics for 1894 were published. Approximate estimates of the amount of iron, silver, anthracite and bituminous coal were made, and the approximations, given in the tables have entered into the calculation. The revised and corrected amounts are also given and these only enter into the construction of Table 22. Three other errors, one of a half million bushels of oats, a second of 20 cents per head in the average price of oxen, and a third of three cents per head in average price of sheep, also found their way in spite of much care, into the calculation of the value of the unit used. The combined effect of all the errors on the final result are so small as not to practically affect the accuracy of the work.

Inspection of the tables of the different commodities show clearly the great annual fluctuation in price and the relation of gross production to price. They also show how misleading might be deductions based upon the movement of one or even of a group of commodities for a short period.

As the average price per unit for the twenty-five years, 1870 to 1894, inclusive, of each commodity is the same as that of every other commodity, and the same as the true average of all commodities, it follows that by comparing the table of any single commodity with the combined table or diagram, its true relation to the average of all commodities may be determined.

In the last column of Table 22 is carried out the total



difference for each year between the actual selling value and the value of the same number of units at the price prevailing in 1870-72, or the total depreciation in the twenty-one commodities for the year. The total depreciation of all twenty-one articles for the twenty-three years from 1873 to 1895 inclusive, amounts to more than twenty-two billions of dollars, and the actual selling value of all twenty-one articles for the same period is over one hundred billions of dollars.

The depreciation on silver for the period 1873-95 was two hundred and ninety-eight millions of dollars, or 1.36 per cent. of the depreciation on the twenty-one commodities.

The movement downward of prices during the twelve months of 1895, extended uniformly eight months into 1896, would, on the first of September, reach the fifty cent per unit line.

Diagram 22 is representative of Table 22, and shows also the gross production in units. Diagram 22A, made in a different manner, represents the relative quantities and values also. Either of these diagrams, or Table 22, show that there has been since 1873 a general movement of prices downward with four upward movements, one of three years' duration, and three of one year's duration. The last upward movement occurred between 1889 and 1890. Since 1890 the course of prices has been always downward, but at a varying rate.

#### SOME OF THE EFFECTS OF THE LATE DECLINE IN PRICE.

It may not be amiss to consider briefly some of the aggregate effects of that portion of the movement since 1890.

The depreciation each year from 1891 to 1895, as compared with the previous year, of 21 commodities, may thus be shown:

| Year. | Price per Unit,<br>Cents | Difference in<br>Price per Unit<br>from Previous<br>Year<br>Cents | Difference in<br>Percentage of<br>Previous Year | Aggregate Depre-<br>ciation from Prices<br>of Previous Year<br>Millions of Dollars |
|-------|--------------------------|---|---|--|
| 1890  | 85.37                    | .....   | .....   | .....  |
| 1891  | 80.18                    | 5.19  | 6.08  | 328  |
| 1892  | 76.41                    | 3.77  | 4.70  | 236  |
| 1893  | 76.19                    | .22   | .29   | 15   |
| 1894  | 71.30                    | 4.89  | 6.42  | 323  |
| 1895  | 58.70                    | 12.60   | 17.67   | 916  |
|       |                          | Total.....  | .....   | 1818   |
|       |                          | Average per   | year five years                                 | 363.6  |

The effect upon the value of farm lands of a long-continued fall in prices of the commodities raised cannot well be estimated, but must have been to greatly reduce that value, presumably to as great an extent as the products themselves were reduced.

The effect of the late continuous fall in prices upon payments for taxes, interest, and other fixed charges payable in money is, as judged by the quantities of commodities required to meet such charges, to continually augment them. For example, if in 1890 the total annual charge for the support of general and local governments of all kinds, and interest for all debts in the United States was two billions of dollars, which was probably true, and if this charge for taxes and interest as expressed in dollars remained unchanged for the ensuing five years, then the number of commodity units required each succeeding year to meet such charge, and their value at prices prevailing in 1895 may be shown thus:

| Year | Gold Value<br>per Unit<br>Cents | Units Purchasable<br>with a Dollar | Units Required to<br>Meet Two Billions<br>of Dollars Fixed<br>Charges<br>Millions | Value of These<br>Units at Prices<br>Prevailing 1890<br>Millions of Dollars |
|------|---------------------------------|------------------------------------|---|---|
| 1890 | 85.4                            | 1.171                              | 2342  | 2,000   |
| 1891 | 80.2                            | 1.247                              | 2494  | 2,130   |
| 1892 | 76.4                            | 1.309                              | 2618  | 2,236   |
| 1893 | 76.2                            | 1.312                              | 2625  | 2,241   |
| 1894 | 71.3                            | 1.403                              | 2805  | 2,396   |
| 1895 | 58.7                            | 1.704                              | 3407  | 2,910   |

As in 1870-72 inclusive the value of the unit was one dollar, the unit column in the above table may also signify dollars at prices prevailing 1870-72 inclusive. If we again assume the movement in 1895 to have been uniformly prolonged to Sept. 1st, 1896, the gold value per unit would have been 50 cents, and the number of commodity units required in 1896 to meet \$2,000,000,000 fixed charges would have been 4,000,000,000, and their value, at prices prevailing in 1890, \$3,416,000,000 or \$1,416,000,000 more than in 1895.

The effect on all business of the increase in the purchasing power of gold, shown in column three of the above table, must be depressing—on any new business practically prohibitory. The increase from 1890, when a dollar would purchase 1.171

commodity units, to 1895, when its purchasing power was 1.704 units, has been .533 units, or 45.5 per cent. for the five years, or an average of 9.1 per cent. per annum. That is, gold stored in a vault in 1890, would at the end of 1895, having remained in the meantime absolutely idle, have increased in value at the rate of 9.1 per cent. per annum. During this same period commodities, and, presumably, property generally, have depreciated from 85.4 cents per unit in 1890 to 58.4 in 1895, equivalent to 31.3 per cent. for the five years, or on the average of 6.2 per cent. per annum.

Money cannot seek business or investment under such conditions.

The effect upon debts of falling prices for the past five years may be shown in the same way.

According to the census report 1890, Book of Mortgages, page 102, the total national, state, county, and municipal debt amounted in 1890 to .....\$ 2,027,170,546  
The minimum private debt including railway and corporation debts was..... 17,000,000,000  
Making a total of.....\$19,027,170,546

Now assuming that no more debt has since been contracted, and quite neglecting the interest, the number of commodity units required to equal in value 19,027,000,000 of dollars during 1890 and following years is as follows:

| Year | Gold Value per Unit Cents | Commodity Units Required to Equal \$19,027,000,000 Millions | Value of Units in Preceding Column at Prices Prevailing in 1890 Millions of Dollars | Annual Increase of the Debt of 1890 Measured in Commodity Units and Expressed in Dollars at Prices Prevailing in 1890 Millions of Dollars |
|------|---------------------------|---|---|---|
| 1890 | 85.4                      | 22,280  | 19,027  | .....   |
| 1891 | 80.2                      | 23,725  | 20,261  | 1,234   |
| 1892 | 76.4                      | 24,905  | 21,269  | 1,008   |
| 1893 | 76.2                      | 24,970  | 21,324  | 55  |
| 1894 | 71.3                      | 26,686  | 22,790  | 1,466   |
| 1895 | 54.7                      | 32,414  | 27,682  | 4,892   |

Here also the unit column in the above table may signify dollars at prices prevailing 1870 to 1872, inclusive.

If we again assume the movement of prices in 1895 to have been continuous and uniform into 1896, then in September, 1896, the number of commodity units required to equal \$19,027,-

000,000 would have been \$38,054,000,000, and the increase of the debt for the eight months of 1896, measured in commodity units expressed in dollars at prices of 1890, would have been \$4,816,000,000.

In other words, during 1895, and presumably now in September, 1896, the debt of the country, quite independent of accumulating interest and of recent bond issues or other recorded additions, is increasing, as measured in commodities (by which only it can be paid), and expressed in dollars at prices of 1890, at the rate of more than \$400,000,000 per month for 1895, and in 1896 at the rate of over \$600,000,000 per month.

The second column of Table 22 gives the average price per unit of all 21 articles for each year, computed for such a size of commodity unit, that the average price for the period 1870, 1871 and 1872 was \$1. The series of numbers, therefore, in this second column is simply a system of index numbers based on a price of \$1 for average of all articles for the period named, with, however, the difference that the scheme is absolutely quantitative.

It recognizes not only the exact importance due to the relative volumes of all articles quoted, but it also accurately registers the annual change in the quantity of the same article.

Were 26 years all of history, the United States all the world, and the 21 commodities cited all of that world's product, then prices as a whole would have declined from the average of period 1870-72 to the average of 1895, 41.3 per cent., or to 58.7 cents per unit.

But the United States is not all the world, nor are our 21 articles by any means all the products even of the United States. In the absence of other complete data it may be assumed that the average of all United States prices have on the whole declined to an equal or greater extent than the 21 articles here considered. The only data available bearing upon this point is the series of index numbers given in "Movement of Prices," 1895, U. S. Treas. Dept., covering a very large number of articles in eight groups, but carried down only to 1891. This system reduced to basis 1870-72 = 100, is given for years 1870 to 1891 in Table 23 and in Diagram 23. Compared with 21 U. S. commodities and reduced to same basis, it shows for the five

years including and preceding 1891, an average price of 76' about 7 points lower than the index number for the 21 articles for the same period. This, so far as it indicates anything for the year 1895, shows that the general average of all prices for the United States should for the year 1895 have been even lower than 58.7 per cent.

#### PRODUCT LESS NET EXPORT OR CONSUMPTION.

Table 22 and Diagram 22 show with the average price the gross production in units for the period 1870-95 inclusive. In both table and diagram are omitted, on account of their absence from the original record, the product and price of barley, potatoes, hay and tobacco, for years 1889-92 inclusive, and tobacco for 1895.

In Table 25 are shown the gross product in units, price per unit, total value in dollars, net exports, and the total and per capita consumption, or product less net exports, of the seven commodities constituting the food products (except potatoes which, as mentioned above, is not completely recorded) and the same details of the seven manufacturing products.

In Diagram 25 is shown the price and consumption per capita of each group.

Both of these tables extend as far back as the statistics accessible to the writer allow.

The food group aggregating in value for the eleven years, 1885-95, \$27,464,800,000, and averaging \$2,496,000,000 per year, shows in 1895 a per capita consumption of 38.9 units, or 10.8 units less than the 49.7 units of 1885.

The manufacturing group with aggregate value of \$10,274,800,000, and average value of \$934,000,000 per year, shows in 1895 a per capita consumption of 16.7 units or 3.3 units more than the 13.4 units of 1885.

The indicated increase in consumption per capita for the manufacturing products is less than the supposed advance of manufacturing industry.\*

\* In Table 25 the net exports, where not given direct, have been computed from the tables of exports and imports in the U. S. Statistical Abstract, 1894 and 1895. Hog products being figured at 200 lbs. per animal; fresh beef at 1000 lbs. per animal; cured or canned beef at 500 lbs. per animal, and mutton of 50 lbs. per animal.

TABLE 25.

Gross Product in Units, Price per unit, Total Value in Dollars,  
Net Exports and Total and per Capita Consumption  
for period 1885 to 1895 inclusive, of  
**Wheat, Corn, Oats, Milch Cows, Oxen, Sheep and Swine.**

| Fiscal Year | Gross Product<br>Millions of<br>Units | Price per<br>Unit | Total Value<br>Millions of<br>Dollars | Net Export<br>Units | CONSUMPTION, OR PRODUCT<br>LESS NET EXPORT |                     |
|-------------|---------------------------------------|-------------------|---------------------------------------|---------------------|--|---------------------|
|             |                                       |                   |                                       |                     | Total Millions<br>of Units                 | Units per<br>Capita |
| 1885        | 2975.1                                | .876              | 2606.0                                | 186.9               | 2788.2                                     | 49.7                |
| 86          | 2939.1                                | .864              | 2532.3                                | 157.3               | 2781.8                                     | 48.5                |
| 87          | 2948.0                                | .832              | 2451.6                                | 203.4               | 2744.6                                     | 46.8                |
| 88          | 2899.1                                | .859              | 2489.3                                | 160.5               | 2738.6                                     | 45.7                |
| 89          | 3148.1                                | .809              | 2546.3                                | 156.4               | 2991.7                                     | 48.8                |
| 1890        | 3358.9                                | .732              | 2457.6                                | 216.1               | 3142.8                                     | 50.2                |
| 91          | 2960.4                                | .867              | 2568.1                                | 176.0               | 2784.4                                     | 43.5                |
| 92          | 3512.8                                | .795              | 2791.3                                | 314.6               | 3198.2                                     | 48.9                |
| 93          | 3229.1                                | .760              | 2452.8                                | 253.9               | 2975.2                                     | 44.5                |
| 94          | 3032.2                                | .765              | 2318.7                                | 241.4               | 2790.8                                     | 40.9                |
| 95          | 2917.5                                | .771              | 2250.8                                | 205.0               | 2712.5                                     | 38.9                |
| 85-95       | 33920.3                               | .....             | 27464.8                               | 2271.5              | 31648.8                                    | 503.4               |
| Aver        | age for 11 yrs                        | .810              |                                       |                     |  |                     |

The same details for

**Cotton, Wool, Pig Iron, Copper, Anthracite and Bituminous  
Coal and Petroleum.**

|       |                |       |         |        |         |       |
|-------|----------------|-------|---------|--------|---------|-------|
| 1885  | 955.2          | .815  | 778.5   | 200.2  | 755.0   | 13.4  |
| 86    | 965.9          | .774  | 747.2   | 103.0  | 862.9   | 15.0  |
| 87    | 1064.1         | .742  | 789.4   | 202.0  | 862.1   | 14.7  |
| 88    | 1128.2         | .849  | 957.4   | 198.2  | 930.0   | 15.5  |
| 89    | 1210.0         | .788  | 953.4   | 207.1  | 1002.9  | 16.4  |
| 1890  | 1213.1         | .780  | 945.9   | 191.4  | 1021.7  | 16.3  |
| 91    | 1355.5         | .776  | 1052.2  | 238.9  | 1116.6  | 17.5  |
| 92    | 1473.2         | .750  | 1104.2  | 297.6  | 1175.6  | 18.0  |
| 93    | 1559.1         | .694  | 1082.6  | 379.8  | 1179.3  | 17.6  |
| 94    | 1384.9         | .701  | 970.7   | 307.0  | 1077.9  | 15.8  |
| 95    | 1386.0         | .645  | 893.3   | 224.6  | 1161.4  | 16.7  |
| 85-95 | 13695.2        | ..... | 10274.8 | 2549.8 | 11145.4 | 176.9 |
| Aver  | age for 11 yrs | .750  |         |        |         |       |

Note—This table is based upon fiscal year and the preceeding calendar year.

The statistics used in determining consumption were those in U. S. Statistical Abstracts for 1894 and '95.

## AVERAGE PRICES IN OTHER COUNTRIES.

Other systems of index numbers have been calculated. Those which have come to the attention of the writer being as follows:

The London Economist's system, based upon 47 articles in 22 classes.

The original publication containing these figures not being accessible, recourse has been had to "Movement of Prices," 1895, page 20, for years 1884 to 1895 inclusive, and to the translation of Dr. Soetbeer's "Materials," etc., in "Bimetallism in Europe" (Consular reports No. 87), page 602, for years 1870 to 1885. The series used is that in which no regard has been paid to relative importance, no complete series of the weighted numbers being available. The index numbers are therefore not quantitative. The numbers from the above sources have been reduced to the basis of 1870-72=100, and appear in Table 23, and in Diagram 23a.

Another series of British index numbers is that of Mr. Sauerbeck involving 45 articles. This series also is given in Table 23 and in Diagram 23a, but as the numbers for 1870-72 are not quoted either in "Movement of Prices" or in any other accessible publication, I have been obliged to use the basis 1867 to 1877 as equal to 100, this being the period upon which the accessible figures are based. It may be here stated that the Economist's Index Numbers, also British, for the 11 years 1867-77 average 101.88, and that the Hamburg Index Numbers for the same period average 100.16, indicating that the difference in the basis in the Sauerbeck series between 1870-72=100, which should be used, and 1867-77=100, which we are obliged to use, is not likely to be very material. (See note under Table 23.)

Sauerbeck's Index Numbers also appear to be based upon price only, i. e. without regard to quantity. The figures used here appear in part in "Bimetallism and Monometallism," by Rev. Dr. Walsh, page 47, and in part in "Movement of Prices," page 15.

A French series of index numbers, involving 22 classes of articles, is mentioned by Dr. Soetbeer on page 601-602 "Bimetallism in Europe." The series extends only to 1883, and is given for that time in Table 23 and in Diagram 23b. It

appears that some regard was paid to the relative importance of the different articles, though in an imperfect manner. This series is also reduced to basis 1870-72=100.

The Hamburg Board of Trade series upon 100 articles to which is added 14 articles of British export, given somewhat at length in "Bimetallism in Europe," pages 607 to 636, is a very complete and extensive series of index numbers. It unfortunately can not be here given later than for 1886, the date to which Soetbeer carried it in his "Materials, etc.," and I can not learn that it has been carried beyond that date. These numbers reduced to a basis of 1870-72 equals 100, are also given in Table 23, and in Diagram 23b.

Mr. Palgrave's statement of prices (silver) in India of seven articles, found on page 603 of "Bimetallism in Europe," is there worked out into a series of index numbers of the prices in silver. The numbers have been reduced to gold prices in accordance with the gold price of silver given in the last column of the statement mentioned above, and reduced to a basis of 1870-72=100, and also appear in Table 23 and in Diagram 23b.

The column in Table 23 marked "Arithmetical Average" is the combination, arithmetical, of the various index numbers in the seven systems. This is also shown in Diagram 23c by the black line.

The quantities and values in the foreign country of imports of sugar, coffee\* and tea, given on pages 290, 295 and 296 respectively of U. S. Statistical Abstract for 1895, have been reduced for the period 1870-94 to the same common measure used for the 21 commodities and combined resulting in a series of quantitative index numbers with a basis 1870-72=101.6-10. These numbers given separately in Table 24 are not combined with the 21 articles because they are not United States products, nor with the 7 systems of index numbers given in Table 23, because the amount represented, only about four billions of dollars, is presumably very much less than those systems represent. It may, however, serve to show that the same movement in prices and in the same direction and about to the same extent that Table 23 records for the four greatest civilized nations

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\*In the case of coffee the price for 1891-92 being, according to the official record, too high, it has been replaced by the average of 1890-94.



of the earth, and for India with its 240,000,000 of people, has extended also to the islands of the sea.

TABLE 24.

## QUANTITATIVE INDEX NUMBERS

Of gold prices in the foreign country of imports into the United States, of Sugar, Coffee and Tea for period 1870 to 1895, reduced to same common measure used for the 21 commodities and combined. Based upon unit price for 1870-72=1.016.

| Year | Index Number | Year | Index Number | Year | Index Number |
|------|--------------|------|--------------|------|--------------|
| 1870 | .956         | 1879 | .885         | 1888 | .733         |
| 1871 | .970         | 1880 | .972         | 1889 | .777         |
| 1872 | 1.121        | 1881 | .946         | 1890 | .837         |
| 1873 | 1.175        | 1882 | .888         | 1891 | .791         |
| 1874 | 1.209        | 1883 | .80          | 1892 | .788         |
| 1875 | 1.031        | 1884 | .747         | 1893 | .781         |
| 1876 | 1.019        | 1885 | .601         | 1894 | .787         |
| 1877 | 1.135        | 1886 | .628         | 1895 | .672         |
| 1878 | 1.082        | 1887 | .638         |      |              |

The foreign systems of index numbers given in Table 23 have been devised and wrought out by learned men for the purpose of studying the movement of prices.

The articles selected have undoubtedly included those of the greatest importance. They represent, therefore, prices of enormous quantities of commodities and the average of these seven series should indicate with some approach to accuracy, the movement of the world's prices.

It must be admitted, however, that any attempt to estimate the volume represented by the eight systems of index numbers would be largely guess work, unless undertaken after a long investigation and with the aid of a complete statistical library.

It may be said, however, that the value represented by the index numbers of only 21 commodities in the United States for the twenty-six years is known to be 110 billions of dollars, and that the value indicated is certainly very much greater than this, in all probability not less than 200 billions of dollars for commodities only.

In Europe and India, with a population aggregating eight-fold that of the United States, the total quantity of commodities involved in the movement and the aggregate amount of the depreciation during the period 1873-95 inclusive, must have been quite beyond the human grasp.

Diagram 23c is of the arithmetical average of the seven systems of index numbers, and also of the price of silver calculated upon the basis coinage value  $1.2929=100$ . By comparing the two diagrams the relation of the price of silver to the world's movement of the prices of commodities is apparent.

The relation to United States movement of prices and to British and other foreign movements of prices, of silver legislation, may be made clear by noting on the diagrams of the various systems of index numbers the nature of the movement immediately following the important acts relating to silver.

For convenience is here given the dates of the principal legislation upon silver.

1871—Preliminary action of Germany adopting gold standard.

1873—Demonetization of silver and adoption of gold standard by United States.

1873—Suspension or limitation of silver coinage in Belgium, France and Holland.

1873—Denmark, Sweden and Norway adopt gold standard.

1873—Germany, final action, adopting gold standard.

1874—Legal tender for silver taken away, in United States, by statute.

1878—The Bland-Allison Act, restoring legal tender to silver and providing for the purchase of two to four million ounces of silver per month.

1890—Repeal of the Bland-Allison law and passage of the Sherman Bill, calling for the purchase of 4,500,000 ounces per month and the issue of treasury notes therefor.

1893—Repeal of the Sherman bill.

1893—Closing of the India mint against coinage of silver on private account.

It will be observed that the legislation in 1873 and 1874 in the United States and other countries against silver, was accompanied, or immediately followed, by a marked decline, lasting

several years, in the price not of silver only, but of commodities, as evidenced by each of the seven diagrams.

That the Bland-Allison act restoring legal tender to silver, and in other ways supposed to be favorable to silver, was accompanied, or a year later followed, by a marked rise in the price of commodities as shown by six out of seven of the series of Index Numbers.

That the repeal of the Sherman bill and the closure of the Indian mint to coinage of silver on private account in 1893 was immediately followed by a marked decline in prices of commodities, as evidenced by each of the three series of Index Numbers carried out to this date.

The aggregate effect of any one of these movements cannot be exactly defined, because, while we know what did in fact take place after important legislation, we can only surmise what would have happened without legislation.

Thus Table 22, or Diagram 22, show that from 1874 to 1878, the 21 United States commodities declined 20 cents per unit, and that in 1878, the date of the restoration to silver of its legal tender function, began a rise lasting three years, and reaching in 1881 97 cents per unit. Now it is altogether likely that the price line descending so rapidly prior to 1878, would, in the absence of any legislation whatever, have reached in the succeeding years a still lower level than 75.8 cents per unit; but assuming that this price line of 1878, would, in the absence of any legislation, have simply remained at the level reached in 1878 for the ensuing ten years, then the money value of our 21 commodities for the ten years would have been over ten cents per unit less than that actually realized. Ten cents per unit on the 54,684,000,000 units produced from 1879 to 1888, inclusive, would amount to \$5,468,000,000.

The effect of the decline in prices following the repeal of the Sherman bill and the closure of the Indian mint to coinage of silver on private account has, for the 21 United States products, been already mentioned. The aggregate effect of this decline on British prices, as shown by the Economist and Sauerbeck Index Numbers, cannot of course be given, as data as to volume of the commodities are wanting.

## THE CAUSE OF THE MOVEMENT.

We have hitherto considered the movement of prices in the United States, with some of the aggregate effects of the same ; the movement of the world's prices and the relation, in point of time, of legislation to the various movements. It remains to consider some of the facts which may account for or explain the movement.

Below is a list of the countries in Europe, North and South America and Oceanica, which were presumably included as "civilized nations," within Dr. Soetbeer's estimate of 1885, of the total gold in civilized countries, given in Consular report No. 87, page 528.

No special significance is to be attached to this classification ; the object of it being merely to show the countries containing the population referred to in the various years :

## GOLD STANDARD.

Australia and New Zealand. Austria Hungary, in 1891, previously Silver Standard. Brazil. Canada. Chili, in 1895, previously Silver Standard. Finland, in 1877, previously Double Standard. Germany, in 1873, previously Silver Standard. Great Britain. Portugal. Roumania, in 1890, previously Double Standard. Scandinavia, in 1873, previously Double Standard. Turkey, in Europe only. United States, 1874 to 1878 only. Uruguay.

## DOUBLE STANDARD.\*

Argentine Republic and Venezuela. Belgium. Bulgaria. Cuba and Hayti. Finland, prior to 1877. France. Greece. Italy. Roumania, prior to 1890. Servia. Spain. Scandinavia, prior to 1873. Switzerland. United States, except 1874 to 1878.

## SILVER STANDARD.

Austria Hungary, prior to 1891. Chili, prior to 1895. Germany, (present area,) prior to 1873. Mexico. Netherlands. Russia, in Europe ; without Finland. South America ; without Chili, Brazil, Uruguay, Argentine, and Venezuela.

The following countries are not included either in population or in estimate of gold or silver : India, China, Japan, Egypt, Straits Settlements, Turkey in Asia, and Russia in Asia.

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\* So called on account of the general existence of legal tender silver, actual standard may be gold.

The population of the countries by groups, as determined in most instances by the Statesmans' Year Book of 1896, is as follows, in millions :

|                                 | YEAR  |       |       |       |
|---------------------------------|-------|-------|-------|-------|
|                                 | 1870  | 1880  | 1890  | 1896  |
| Gold Standard Countries .....   | 55.8  | 118.8 | 137.  | 191.6 |
| Double Standard Countries ..... | 143.6 | 165.  | 178.  | 192.4 |
| Silver Standard Countries ..... | 167.4 | 139.  | 155.9 | 122.2 |
| Total Civilized Countries ..... | 366.8 | 422.8 | 471.0 | 506.2 |

In table 26, given below, column "a" shows the total amount of gold in the civilized world at the end of the different years. The bold-faced figures for 1870-80-85, being the estimate made by Dr. Soetbeer, (see Consular Report, No. 87, page 528). The figures between Dr. Soetbeer's estimate are interpolations. Those after 1885 are based upon the World's production; (see U. S. Mint Report); and upon a non-monetary consumption composed of a consumption in the arts of \$56,400,000 in 1885, (Soetbeer's estimate); increasing by one per cent. each succeeding year, and of a flow to the East of \$20,000,000 per year to and including 1892; and in 1893-94 and 1895, of a movement in the opposite direction of \$32,000,000.

Column "b" shows the gold in the great Government Banks in Europe and Australia. Those figures in *Italics* are interpolated on account of incomplete record. Other figures not specially noted are from Consular Report No. 87. The figures there given are reduced to dollars by dividing the number of marks by four; the francs by five, and by multiplying the English pound by five; and are therefore not exact.

The last two columns show the gold in circulation, total and per capita for Gold and Double Standard countries.

The last column will to some extent lack literal accuracy, because there was at the beginning and throughout the total period *some* gold in the Silver Standard Countries. Nearly all of such gold was, however, in the great Banks, and cuts no figure in the circulation; that remaining in circulation being too small, as compared with the entire stock, to materially affect the result.

It must also be borne in mind that the United States in 1870 and until 1878 had very little gold; most of the time but \$25,000,000, and in 1895, according to the Treasury Department statement, \$636,000,000. Had the United States been classed in 1870 as a non-user of gold, and omitted from the population of Column "c" until 1880, when it became a gold-using nation, the per capita for 1870 would be nearly 14., and that for 1880 10.4; below which year the table would of course remain unchanged.

Diagram 26 is a graphic presentation of table 26, except the last or per capita column, which is shown on diagram 27.

Table 27 is perhaps sufficiently described by its heading. Dr. Soetbeer's estimate of the amount of silver in civilized countries in 1885, which in connection with the data given with it, would appear to equally well establish the amount for 1880, has served as a basis for this table. That estimate has been carried on to 1895, and back to 1872.

The object of this table being in part to show the relation of the value of all circulating metallic money to the number of people *using* it; the per capita column has been computed as far down as 1879 in two ways; first by including the population of the United States in the divisor, and second, by omitting it. As during the period 1862 to 1879, there was very little of either silver or gold in the United States, the second column would appear to best indicate for the entire civilized world the true relation of value of circulating precious metals to population. The second of the two series, in which the population of the United States is omitted, is the one plotted in diagram 27.

Diagram 27 shows in the lower part the coining and commercial value of the world's stock of silver.

In the upper part is plotted the circulating gold in civilized countries per capita of gold standard and double standard countries, shown by the black line with small circles; also, shown by a double line and black dots, the value of the circulating metallic money per capita of civilized countries.

These two series of numbers are, in 1872, so near 10, that, by regarding each of the large divisions of the vertical scale as one dollar, they may for casual inspection, be plotted direct, without the reduction, which would make them exactly compar-

able with each other, or with one in which 1870-1872 was equal to 100.

The third line in the upper part, solid, is the arithmetical average of seven systems of index numbers, previously given in diagram 23-c, involving 264 articles or groups, and I believe fairly representing the world's prices for a quarter of a century.

As the object of table and diagram No. 27 is to consider the relation of precious metals used as money, (and not of paper or token money) to population, the commercial value of the silver is used.

Some interesting facts appearing from the table and diagrams herein contained may be briefly mentioned.

The remarkable agreement between the arithmetical average of seven series of index numbers, which we may say represents the world's prices, and the comparable series showing the price of silver, shown in diagram 23-c, would indicate beyond question that the movement of prices in general, and that of silver, has been produced by one and the same cause.

The comparison of the world's prices with the amount of circulating gold per capita, and with the value of circulating gold and silver per capita, as shown by tables and diagrams 26-27, indicate that the value or purchasing power of gold increases as the amount of it per capita in circulation diminishes, and that the value or purchasing power of gold and silver taken together, increases as the total value per capita in circulation diminishes.

The difference between the coining value and the commercial value of the silver in the world, at the end of 1895, was roundly, \$1,200,000,000, U. S. coining value.

Although the World's production of silver from 1872 to 1895 amounted to \$3,182,000,000, U. S. coining value, the World's stock of silver in 1895 was only \$927,000,000 more than in 1872; the non-monetary consumption amounting to \$2,250,000,000, U. S. coining value.

The actual commercial value of the World's stock of silver in 1895 was \$269,000,000 less than in 1872.

The World's stock of silver in 1871 was \$1,490,000,000, U. S. coining value; a smaller amount than at any time since, and also less than at any previous year for forty years or more.

TABLE 1.

Production and value of **Wheat** in the United States.  
Gold Basis.

| Year  | Product<br>in Bushels<br><br><i>a</i> | PRICE PER<br>BUSHEL       |               | Total Value of<br>Crop in Dollars<br><br><i>a</i> | COMMODITY UNITS                                 |  |
|-------|---------------------------------------|---------------------------|---------------|---|---|--|
|       |                                       | Cur-<br>rency<br><i>a</i> | Gold          |   | Price<br>per<br>Unit of<br>1.013 bu<br><i>c</i> | Number of Units<br>in Crop<br><i>c</i> |
| 1870  | <i>b</i> 235,884,700                  | \$1.042                   | \$ .907       | 213,902,589                                       | \$.920  | 232,440,783                            |
| 71    | 230,722,400                           | 1.258                     | 1.127         | 259,918,579                                       | 1.143   | 227,353,853                            |
| 72    | 249,997,100                           | 1.24                      | 1.104         | 276,060,534                                       | 1.121   | 246,347,142                            |
| 70-72 | 716,604,200                           | .....                     | 1.046         | 749,881,702                                       | 1.062   | 706,141,778                            |
| 1873  | 281,254,700                           | 1.15                      | 1.011         | 284,439,834                                       | 1.026   | 277,148,381                            |
| 74    | 308,102,700                           | .945                      | .849          | 261,705,998                                       | .862  | 303,604,401                            |
| 75    | 292,136,000                           | 1.009                     | .877          | 256,285,383                                       | .891  | 287,870,814                            |
| 76    | 289,956,500                           | 1.035                     | .93           | 269,632,851                                       | .944  | 285,723,135                            |
| 77    | 364,194,146                           | 1.084                     | 1.034         | 376,539,773                                       | 1.049   | 358,876,911                            |
| 78    | 420,122,400                           | .777                      | .771          | 323,735,653                                       | .782  | 413,988,613                            |
| 79    | 448,756,630                           | 1.108                     | 1.108         | 497,020,142                                       | 1.124   | 442,204,783                            |
| 1880  | 498,549,868                           | .....                     | .951          | 474,201,850                                       | .956  | 491,271,040                            |
| 81    | 383,280,090                           | .....                     | 1.192         | 456,880,427                                       | 1.21  | 377,684,201                            |
| 82    | 504,185,470                           | .....                     | .884          | 445,602,125                                       | .897  | 496,824,362                            |
| 83    | 421,086,160                           | .....                     | .911          | 383,649,282                                       | .925  | 414,938,302                            |
| 84    | 512,765,000                           | .....                     | .645          | 330,862,260                                       | .654  | 505,278,631                            |
| 85    | 357,112,000                           | .....                     | .771          | 275,320,390                                       | .783  | 351,898,165                            |
| 86    | 457,218,000                           | .....                     | .687          | 314,226,020                                       | .697  | 450,542,617                            |
| 87    | 456,329,000                           | .....                     | .681          | 310,612,960                                       | .691  | 449,666,597                            |
| 88    | 415,868,000                           | .....                     | .926          | 385,248,030                                       | .94   | 409,796,327                            |
| 89    | 490,560,000                           | .....                     | .698          | 342,491,707                                       | .709  | 483,397,824                            |
| 1890  | 399,262,000                           | .....                     | .838          | 334,773,678                                       | .851  | 393,432,775                            |
| 91    | 611,780,000                           | .....                     | .839          | 513,472,711                                       | .852  | 602,848,012                            |
| 92    | 515,949,000                           | .....                     | .624          | 322,111,881                                       | .634  | 508,416,145                            |
| 93    | 396,131,725                           | .....                     | .538          | 213,171,381                                       | .546  | 390,348,202                            |
| 94    | 460,267,416                           | .....                     | .491          | 225,902,025                                       | .498  | 453,547,512                            |
| 70-94 | 10,001,471,005                        | .....                     | .....         | 8,347,768,063                                     | .847  | 9,855,449,528                          |
|       | True average,<br>Value of commodity   |                           | .835<br>unit= | .84736 + .835 =                                   | 1.015   | bu. Unit for Wheat.                    |
| 1895  | <i>d</i> 467,102,947                  | .....                     | .509          | 237,938,998                                       | .517  | 460,283,244                            |
| 73-95 | .....                                 | .....                     | .....         | 7,835,825,359                                     | .815  | 9,609,590,994                          |

*a* From U. S. Statistical Abstract, 1894, page 284, unless otherwise noted.

*b* Direct from U. S. Agricultural Report, 1870.

*c* Computed.

*d* From U. S. Statistical Abstract, 1895, page 298



TABLE 2.

Production and value of **Corn** in the United States.  
Gold Basis.

| Year  | Product<br>in Bushels | PRICE PER<br>BUSHEL      |                 | Total Value of<br>Crop in Dollars | COMMODITY UNITS                                |                                 |
|-------|-----------------------|--------------------------|-----------------|-----------------------------------|--|---------------------------------|
|       |                       | Cur-<br>rency<br>\$<br>a | Gold<br>\$<br>c |                                   | Price<br>per<br>Unit of<br>2.129 bu<br>\$<br>c | Number of Units<br>in Crop<br>c |
| 1870  | 1,094,225,000         | .55                      | .4785           | b 523,599,956                     | 1.019  | 513,957,483                     |
| 71    | 991,898,000           | .4822                    | .4315           | 428,056,930                       | .9189  | 465,894,491                     |
| 72    | 1,092,719,000         | .3984                    | .3546           | 387,282,868                       | .7545  | 513,250,114                     |
| 70-72 | 3,178,842,000         | .....                    | .421            | 1,338,933,754                     | .8962  | 1,493,102,088                   |
| 73    | 932,274,000           | .4796                    | .4216           | 393,073,875                       | .8977  | 437,889,098                     |
| 74    | 850,148,500           | .64                      | .5816           | 494,488,729                       | 1.238  | 399,314,750                     |
| 75    | 1,321,069,000         | .4204                    | .3658           | 483,237,959                       | .7787  | 620,506,109                     |
| 76    | 1,283,827,500         | .3705                    | .3327           | 426,991,107                       | .7079  | 603,013,777                     |
| 77    | 1,342,558,000         | .3581                    | .3417           | 458,533,804                       | .7272  | 630,599,492                     |
| 78    | 1,388,218,750         | .3178                    | .3153           | 437,624,178                       | .6712  | 652,046,347                     |
| 79    | 1,547,901,790         | .....                    | .3752           | 580,486,217                       | .7984  | 727,049,471                     |
| 1880  | 1,717,434,543         | .....                    | .3959           | 679,714,499                       | .8427  | 806,679,005                     |
| 81    | 1,194,916,000         | .....                    | .636            | 759,482,170                       | 1.353  | 561,252,045                     |
| 82    | 1,617,025,100         | .....                    | .4847           | 783,867,175                       | 1.032  | 759,516,689                     |
| 83    | 1,551,066,895         | .....                    | .4242           | 658,051,485                       | .9032  | 728,536,121                     |
| 84    | 1,795,528,000         | .....                    | .3569           | 640,735,560                       | .7598  | 843,359,502                     |
| 85    | 1,936,176,000         | .....                    | .3283           | 635,674,630                       | .698   | 909,421,867                     |
| 86    | 1,665,441,000         | .....                    | .3665           | 610,311,000                       | .7802  | 782,257,638                     |
| 87    | 1,456,161,000         | .....                    | .4438           | 646,106,770                       | .9447  | 683,958,822                     |
| 88    | 1,987,790,000         | .....                    | .3410           | 677,561,580                       | .7257  | 933,664,963                     |
| 89    | 2,112,892,000         | .....                    | .2831           | 597,918,829                       | .602   | 992,425,372                     |
| 1890  | 1,489,970,000         | .....                    | .5066           | 754,433,451                       | 1.078  | 699,838,909                     |
| 91    | 2,060,154,000         | .....                    | .406            | 836,439,228                       | .8644  | 967,654,334                     |
| 92    | 1,628,464,000         | .....                    | .3944           | 642,146,630                       | .8396  | 764,889,541                     |
| 93    | 1,619,496,131         | .....                    | .3654           | 591,625,627                       | .7778  | 760,677,333                     |
| 94    | 1,212,770,052         | .....                    | .4577           | 554,719,162                       | .9735  | 569,638,093                     |
| 70-94 | 36,890,124,261        | .....                    | .....           | 14,682,163,419                    | .8475  | 17,327,291,366                  |
|       | True average..        | .....                    | .398            |                                   |  |                                 |
|       | Value of commo dity   | unit=                    |                 | .84736 ÷ .398 =                   | 2.129  | bu. Unit for Corn.              |
| 1895  | 2,151,138,580         | .....                    | .264            | 567,509,106                       | .562   | 1,010,389,791                   |
| 73-95 | .....                 | .....                    | .....           | 13,910,732,775                    | .826   | 16,844,579,069                  |

a From U. S. Statistical Abstract, 1904, page 234, unless otherwise noted.

b Direct from Agricultural Report, 1870.

c Computed.

d From U. S. Statistical Abstract, 1895, page 293.

**TABLE 3.**  
**Production and value of Oats in the United States.**  
**Gold Basis.**

| YEAR  | Product<br>in Bushels          | PRICE PER<br>BUSHEL             |                        | Total Value of<br>Crop in Dollars | COMMODITY UNITS                                       |  |
|-------|--------------------------------|---------------------------------|------------------------|-----------------------------------|---|--|
|       |                                | Cur-<br>rency<br>\$<br><i>a</i> | Gold<br>\$<br><i>b</i> |                                   | Price<br>per<br>Unit of<br>2,656 bu<br>\$<br><i>c</i> | Number of Units<br>in Crop<br><i>c</i> |
| 1870  | 247,277,400                    | .4334                           | .377                   | <i>b</i> 93,208,938               | 1.001   | 93,099,940                             |
| 71    | 255,743,000                    | .402                            | .359                   | 91,890,177                        | .954  | 96,287,240                             |
| 72    | 271,747,000                    | .336                            | .299                   | 81,270,982                        | .794  | 102,312,746                            |
| 70-72 | 774,767,400                    | .....                           | .344                   | 266,370,097                       | .913  | 291,699,926                            |
| 73    | 270,340,000                    | .374                            | .329                   | 88,933,484                        | .874  | 101,783,010                            |
| 74    | 240,369,000                    | .52                             | .468                   | 112,417,730                       | 1.242   | 90,498,929                             |
| 75    | 354,317,500                    | .365                            | .318                   | 112,664,939                       | .844  | 133,400,539                            |
| 76    | 320,884,000                    | .3516                           | .316                   | 101,353,578                       | .839  | 120,812,826                            |
| 77    | 406,394,000                    | .292                            | .279                   | 113,203,119                       | .74   | 153,007,341                            |
| 78    | 413,578,560                    | .2465                           | .2445                  | 101,130,263                       | .649  | 155,712,328                            |
| 79    | 363,761,320                    | .331                            | .331                   | 120,533,294                       | .88   | 136,956,137                            |
| 1880  | 417,885,380                    | .....                           | .3505                  | 150,243,555                       | .955  | 157,333,846                            |
| 81    | 416,481,000                    | .....                           | .464                   | 193,193,970                       | 1.231   | 156,805,097                            |
| 82    | 488,250,610                    | .....                           | .375                   | 182,978,022                       | .995  | 183,826,355                            |
| 83    | 571,302,400                    | .....                           | .327                   | 187,040,264                       | .87   | 215,095,354                            |
| 84    | 583,628,000                    | .....                           | .277                   | 161,528,470                       | .735  | 219,735,942                            |
| 85    | 629,409,000                    | .....                           | .285                   | 179,631,860                       | .758  | 236,972,489                            |
| 86    | 624,134,000                    | .....                           | .298                   | 186,137,930                       | .792  | 234,988,451                            |
| 87    | 659,618,000                    | .....                           | .304                   | 200,699,790                       | .808  | 248,346,177                            |
| 88    | 701,735,000                    | .....                           | .2785                  | 195,424,240                       | .739  | 264,203,228                            |
| 89    | 751,515,000                    | .....                           | .2285                  | 171,781,008                       | .607  | 282,943,398                            |
| 1890  | 523,621,000                    | .....                           | .424                   | 222,048,486                       | 1.126   | 197,143,306                            |
| 91    | 738,394,000                    | .....                           | .315                   | 232,312,267                       | .836  | 278,005,341                            |
| 92    | 661,035,000                    | .....                           | .3165                  | 209,253,611                       | .841  | 248,879,678                            |
| 93    | 638,854,850                    | .....                           | .294                   | 187,576,092                       | .78   | 240,528,851                            |
| 94    | 662,086,928                    | .....                           | .3245                  | 214,816,920                       | .862  | 249,275,728                            |
| 70-94 | 12,212,361,948                 | .....                           | .....                  | 3,891,277,989                     | .846  | 4,597,954,277                          |
|       | True average,<br>Value of comm | odity                           | .319<br>unit=          | .8473 ÷ .319 =                    | 2.656   | bu. Unit for Oats.                     |
| 1895  | <i>d</i> 824,443,537           | .....                           | .199                   | 163,655,068                       | .527  | 310,402,992                            |
| 73-95 | .....                          | .....                           | .....                  | 3,788,562,960                     | .821  | 4,616,657,343                          |

*a* From U. S. Statistical Abstract, 1894, page 285, unless otherwise noted.

*b* Direct from U. S. Agricultural Report, 1870.

*c* Computed.

*d* From U. S. Statistical Abstract, 1895, page 299.

TABLE 4.

Production and value of **Barley** in the United States.  
Gold Basis.

| Year  | Product<br>in Bushels | PRICE PER<br>BUSHEL |                | Total Value of<br>Crop in Dollars | COMMODITY UNITS                           |                            |
|-------|-----------------------|---------------------|----------------|-----------------------------------|---|----------------------------|
|       |                       | Cur-<br>rency<br>\$ | Gold<br>\$     |                                   | Price<br>per<br>Unit of<br>1.418 bu<br>\$ | Number of Units<br>in Crop |
|       | <i>a</i>              | <i>a</i>            |                | <i>a</i>                          | <i>c</i>                                  |                            |
| 1870  | <i>b</i> 26,295,400   | .846                | .736           | 19,352,788                        | 1.044                                     | 18,540,886                 |
| 71    | 26,718,500            | .844                | .755           | 20,179,890                        | 1.071                                     | 18,839,214                 |
| 72    | 26,846,400            | .739                | .658           | 17,655,618                        | .933                                      | 18,929,397                 |
| 70-72 | 79,860,300            | .....               | .716           | 57,188,296                        | 1.016                                     | 56,309,497                 |
| 73    | 32,044,491            | .915                | .805           | 25,784,172                        | 1.141                                     | 22,594,571                 |
| 74    | 32,552,500            | .921                | .828           | 26,955,408                        | 1.178                                     | 22,952,768                 |
| 75    | 36,908,600            | .8114               | .706           | 26,058,311                        | 1.001                                     | 26,024,254                 |
| 76    | 38,710,500            | .665                | .597           | 23,110,128                        | .847                                      | 27,294,774                 |
| 77    | 34,441,400            | .6395               | .61            | 21,015,326                        | .865                                      | 24,284,631                 |
| 78    | 42,245,630            | .5795               | .575           | 24,287,448                        | .812                                      | 29,787,394                 |
| 79    | 40,283,100            | .589                | .589           | 23,714,444                        | .835                                      | 28,403,614                 |
| 1880  | 45,165,346            | .....               | .666           | 30,090,742                        | .945                                      | 31,846,085                 |
| 81    | 41,161,330            | .....               | .823           | 33,862,513                        | 1.167                                     | 29,022,854                 |
| 82    | 48,952,926            | .....               | .628           | 30,768,015                        | .891                                      | 34,516,708                 |
| 83    | 50,136,097            | .....               | .587           | 29,420,423                        | .832                                      | 35,350,962                 |
| 84    | 61,203,000            | .....               | .486           | 29,779,170                        | .69                                       | 43,154,235                 |
| 85    | 58,360,000            | .....               | .563           | 32,867,696                        | .799                                      | 41,149,636                 |
| 86    | 59,428,000            | .....               | .536           | 31,840,510                        | .759                                      | 41,902,683                 |
| 87    | 56,812,000            | .....               | .5198          | 29,464,390                        | .736                                      | 40,058,141                 |
| 88    | 63,884,000            | .....               | .5897          | 37,672,032                        | .836                                      | 45,044,608                 |
| 89    | <i>d</i> .....        | .....               | .....          | .....                             | .....                                     | .....                      |
| 1890  | <i>d</i> .....        | .....               | .....          | .....                             | .....                                     | .....                      |
| 91    | <i>d</i> .....        | .....               | .....          | .....                             | .....                                     | .....                      |
| 92    | <i>d</i> .....        | .....               | .....          | .....                             | .....                                     | .....                      |
| 93    | 69,860,495            | .....               | .4111          | 28,729,386                        | .583                                      | 49,264,981                 |
| 94    | 61,400,465            | .....               | .4419          | 27,134,127                        | .627                                      | 43,293,468                 |
| 70-94 | 953,419,180           | .....               | .5975          | 569,742,537                       | .847                                      | 672,255,864                |
|       | True average..        | .....               | .5975          |                                   |   |                            |
|       | Value of commodity    | unit=               | .8473 ÷ .597 = |                                   | 1.418                                     | bu. Unit for Barley.       |
| 1895  | <i>e</i> 87,072,744   | .....               | .337           | 29,312,413                        | .477                                      | 61,394,992                 |
| 73-95 | .....                 | .....               | .....          | 541,866,654                       | .800                                      | 677,341,359                |

*a* From U. S. Statistical Abstract, 1894, page 286, unless otherwise noted.

*b* Direct from U. S. Agricultural Report, 1870.

*c* Computed.

*d* No record.

*e* From U. S. Statistical Abstract, 1895, page 300

**TABLE 5.**  
**Production and Value of Potatoes in the United States.**  
**Gold Basis.**

| Year  | Product<br>in Bushels          | PRICE PER<br>BUSHEL        |               | Total Value of<br>Crop in Dollars | COMMODITY UNITS                                       |  |
|-------|--------------------------------|----------------------------|---------------|-----------------------------------|---|--|
|       |                                | Currency<br>\$<br><i>a</i> | Gold<br>\$    |                                   | Price<br>per<br>Unit of<br>1.645 bu<br>\$<br><i>b</i> | Number of Units<br>in Crop<br><i>b</i> |
| 1870  | 114 775,000                    | .72                        | .627          | 71 921,673                        | 1.03  | 69 760,245                             |
| 71    | 120,461,100                    | .5966                      | .534          | 64 293,820                        | .8782   | 73,216,257                             |
| 72    | 113,516,000                    | .5995                      | .5338         | 60,592,197                        | .8782   | 68 995,024                             |
| 70-72 | 348,752,100                    | .....                      | .564          | 196,807,690                       | .9287   | 211,971,526                            |
| 73    | 106,089,000                    | .705                       | .62           | 65,727,128                        | 1.019   | 64,480,894                             |
| 74    | 105,981,000                    | .677                       | .6096         | 64,569,174                        | 1.002   | 64,415,252                             |
| 75    | 166 877,000                    | .388                       | .3391         | 56 566,895                        | .5578   | 101 427,840                            |
| 76    | 124,877,000                    | .672                       | .6034         | 75,307,528                        | .9921   | 75,900,241                             |
| 77    | 170 092,000                    | .4485                      | .4279         | 72,741,933                        | .7042   | 103,381 918                            |
| 78    | 124,126,650                    | .5887                      | .5304         | 72,474 652                        | .9606   | 75 444,178                             |
| 79    | 181,626,400                    | .436                       | .436          | 79,153,673                        | .717  | 110,392,526                            |
| 1880  | 167,659,570                    | .....                      | .483          | 81,062,214                        | .795  | 101,903,487                            |
| 81    | 109,145,494                    | .....                      | .910          | 99,291,341                        | .497  | 66,338,631                             |
| 82    | 170 972,508                    | .....                      | .5576         | 95 304,844                        | .9172   | 103,917,089                            |
| 83    | 208,164,425                    | .....                      | .422          | 87,849,991                        | .6944   | 126,522,338                            |
| 84    | 190,642,000                    | .....                      | .396          | 75,524,290                        | .6522   | 115,872,208                            |
| 85    | 175,029,000                    | .....                      | .447          | 78 153 403                        | .7352   | 106,382,626                            |
| 86    | 168,451,000                    | .....                      | .467          | 78,441,940                        | .7683   | 102,141,398                            |
| 87    | 134,103,000                    | .....                      | .682          | 91,506,740                        | 1.123   | 81,507,803                             |
| 88    | 202,365,000                    | .....                      | .402          | 81,413,589                        | .6624   | 122,997,447                            |
| 89    | <i>c</i> .....                 | .....                      | .....         | .....                             | .....   | .....                                  |
| 1890  | <i>c</i> .....                 | .....                      | .....         | .....                             | .....   | .....                                  |
| 91    | <i>c</i> .....                 | .....                      | .....         | .....                             | .....   | .....                                  |
| 92    | <i>c</i> .....                 | .....                      | .....         | .....                             | .....   | .....                                  |
| 93    | 183 034,203                    | .....                      | .594          | 108,661,801                       | .9766   | 111,248,189                            |
| 94    | 170 787,338                    | .....                      | .536          | 91,526,787                        | .8817   | 103,804,544                            |
| 70-94 | 3,208,374,688                  | .....                      | .....         | 1,652,085,613                     | .8472   | 1,950,050,135                          |
|       | True average,<br>Value of comm | odity                      | .515<br>unit= | .8473 ÷ .515 =                    | 1.645   | bu. Unit for Potatoes.                 |
| 1895  | <i>d</i> 297,237,370           | .....                      | .266          | 78,984,901                        | .437  | 180,660,873                            |
| 73-95 | .....                          | .....                      | .....         | 1,534 262,824                     | .800  | 1,918,739,482                          |

*a* Direct from Agricultural Reports unless otherwise noted.

*b* Computed.

*c* No record.

*d* From U. S. Statistical Abstract, 1895, page 306.

TABLE 6.

Production and Value of **Hay** in the United States.  
Gold Basis.

| Year  | Product in Tons                     | PRICE PER TON       |                 | Total Value of Crop in Dollars | COMMODITY UNITS                       |                              |
|-------|-------------------------------------|---------------------|-----------------|--------------------------------|---------------------------------------|------------------------------|
|       |                                     | Currency<br>\$<br>a | Gold<br>\$<br>b |                                | Price per Unit of .083 ton<br>\$<br>b | Number of Units in Crop<br>b |
| 1870  | 24 525,000                          | 13.82               | 12.03           | 294 903,622                    | 1.062                                 | 277,843,725                  |
| 71    | 22 230,400                          | 15.82               | 14.16           | 314,786,746                    | 1.25                                  | 251 848,202                  |
| 72    | 23 812,800                          | 14.53               | 12.93           | 307,912,480                    | 1.142                                 | 269,775,211                  |
| 70-72 | 70,568,200                          | .....               | 13.00           | 917,602,848                    | 1.148                                 | 799,467,138                  |
| 73    | 25 085,100                          | 13.55               | 11.91           | 298,768,132                    | 1.051                                 | 284,189,098                  |
| 74    | 24,133,900                          | 13.73               | 12.35           | 297,947,243                    | 1.09                                  | 273,412,953                  |
| 75    | 27,873,600                          | 12.27               | 10.69           | 297,803,997                    | .943                                  | 315,780,014                  |
| 76    | 30,867,400                          | 9.75                | 8.76            | 270,209,324                    | .773                                  | 349,696,775                  |
| 77    | 31,629,300                          | 8.59                | 8.20            | 259,425,942                    | .724                                  | 358,328,340                  |
| 78    | 39,608,296                          | 7.21                | 7.15            | 283,259,402                    | .631                                  | 448,722,385                  |
| 79    | 35,403,000                          | 9.32                | 9.32            | 330,804,494                    | .822                                  | 401,080,587                  |
| 1880  | 31,925,233                          | .....               | 11.65           | 371,811,084                    | 1.028                                 | 361,680,965                  |
| 81    | 31,135,064                          | .....               | 11.82           | 415,131,366                    | 1.043                                 | 398,045,140                  |
| 82    | 38,138,049                          | .....               | 9.70            | 369,958,158                    | .856                                  | 432,065,957                  |
| 83    | 46,861,009                          | .....               | 8.19            | 383,834,451                    | .723                                  | 530,922,358                  |
| 84    | 48,470,460                          | .....               | 8.17            | 396,139,309                    | .721                                  | 549,121,841                  |
| 85    | 44,731,550                          | .....               | 8.71            | 389,752,873                    | .769                                  | 506,763,730                  |
| 86    | 41,796,499                          | .....               | 8.46            | 353,437,699                    | .746                                  | 473,512,537                  |
| 87    | 41,454,458                          | .....               | 9.97            | 413,440,283                    | .88                                   | 469,637,555                  |
| 88    | 46,643,094                          | .....               | 8.76            | 408,499,565                    | .773                                  | 528,419,612                  |
| 89    | c.....                              | .....               | .....           | .....                          | .....                                 | .....                        |
| 1890  | c.....                              | .....               | .....           | .....                          | .....                                 | .....                        |
| 91    | c.....                              | .....               | .....           | .....                          | .....                                 | .....                        |
| 92    | c.....                              | .....               | .....           | .....                          | .....                                 | .....                        |
| 93    | 65,766,158                          | .....               | 8.68            | 570,882,872                    | .766                                  | 745,064,804                  |
| 94    | 54,874,408                          | .....               | 8.54            | 468,578,321                    | .746                                  | 621,672,168                  |
| 70-94 | 780,967,778                         | .....               | .....           | 7,497,287,363                  | .847                                  | 8,847,583,957                |
|       | True average,<br>Value of commodity | .....               | 9.60<br>unit=   | .8473 ÷ 9.60 =                 | .0883                                 | ton. Unit for Hay.           |
| 1895  | d 47,078,541                        | .....               | 8.352           | 393,185,615                    | .737                                  | 533,352,791                  |
| 73-95 | .....                               | .....               | .....           | 6,972,870,130                  | .813                                  | 8,581,469,610                |

a Direct from Agricultural Reports unless otherwise noted.

b Computed.

c No Record.

d From U. S. Statistical Abstract, 1895, page 306.

**TABLE 7.**  
**Production and value of Tobacco in the United States.**  
**Gold Basis.**

| Year  | Product in Pounds               | PRICE PER POUND     |                 | Total Value of Crop in Dollars | COMMODITY UNITS                  |                        |
|-------|---------------------------------|---------------------|-----------------|--------------------------------|----------------------------------|------------------------|
|       |                                 | Currency<br>\$<br>a | Gold<br>\$<br>b |                                | Price per Unit of 10.46 lbs<br>c | Number of Units<br>c   |
| 1870  | 250,628,000                     | .106                | .092            | 23,270,027                     | .97                              | 23,960,037             |
| 71    | 263,196,100                     | .098                | .088            | 23,181,772                     | .92                              | 25,161,547             |
| 72    | 342,304,000                     | .104                | .093            | 31,800,043                     | .972                             | 32,724,262             |
| 70-72 | 856,128,100                     | .....               | .0915           | 78,251,842                     | .956                             | 81,845,846             |
| 73    | 372,810,000                     | .083                | .073            | 27,131,189                     | .76                              | 35,640,636             |
| 74    | 178,355,000                     | .131                | .118            | 21,003,126                     | 1.23                             | 17,050,738             |
| 75    | b.....                          | .....               | .....           | .....                          | .....                            | .....                  |
| 76    | 381,002,000                     | .074                | .066            | 25,398,105                     | .697                             | 36,423,791             |
| 77    | b.....                          | .....               | .....           | .....                          | .....                            | .....                  |
| 78    | 392,546,700                     | .056                | .056            | 21,960,328                     | .585                             | 37,527,465             |
| 79    | 391,278,350                     | .058                | .058            | 22,727,524                     | .607                             | 37,406,210             |
| 1880  | 446,296,889                     | .....               | .082            | 36,414,615                     | .8535                            | 42,665,983             |
| 81    | 449,880,014                     | .....               | .096            | 43,372,336                     | 1.009                            | 43,008,529             |
| 82    | 513,077,558                     | .....               | .084            | 43,189,950                     | .88                              | 49,050,215             |
| 83    | 451,545,641                     | .....               | .0894           | 40,455,362                     | .937                             | 43,167,763             |
| 84    | 541,504,000                     | .....               | .0815           | 44,160,151                     | .8532                            | 51,767,782             |
| 85    | 562,736,000                     | .....               | .0768           | 43,265,598                     | .8042                            | 53,797,562             |
| 86    | 532,537,000                     | .....               | .074            | 39,468,218                     | .7751                            | 50,910,537             |
| 87    | 386,240,000                     | .....               | .106            | 40,977,259                     | 1.11                             | 36,924,544             |
| 88    | 565,795,000                     | .....               | .077            | 43,666,665                     | .807                             | 54,090,002             |
| 89    | b.....                          | .....               | .....           | .....                          | .....                            | .....                  |
| 1890  | b.....                          | .....               | .....           | .....                          | .....                            | .....                  |
| 91    | b.....                          | .....               | .....           | .....                          | .....                            | .....                  |
| 92    | b.....                          | .....               | .....           | .....                          | .....                            | .....                  |
| 93    | 483,023,963                     | .....               | .081            | 39,155,442                     | .848                             | 46,177,091             |
| 94    | 406,678,385                     | .....               | .0682           | 27,760,739                     | .714                             | 38,878,454             |
| 70-94 | 7,911,434,600                   | .....               | .....           | 638,358,449                    | .844                             | 756,333,148            |
|       | True Average Value of Commodity | .....               | .081 unit=      | .84736 ÷ .081=                 | 10.46                            | lbs. Unit for Tobacco. |
| 1895  | b.....                          | .....               | .....           | .....                          | .....                            | .....                  |
| 73-95 | .....                           | .....               | .....           | 560,106,607                    | .830                             | 674,487,302            |

a From 1870 to 1890, from the Annual Agricultural Reports, from 1881 to 1894 inclusive, from U. S. Statistical Abstract, page 291.

b No Statistics on record or accessible.

c Computed.

TABLE 8.

Production and value of Cotton in the United States.  
Gold Basis.

| Year  | Product<br>in Pounds   | PRICE PER<br>POUND  |            | Total Value of<br>Crop in Dollars | COMMODITY UNITS                           |                       |
|-------|------------------------|---------------------|------------|-----------------------------------|---|-----------------------|
|       |                        | Cur-<br>rency<br>\$ | Gold<br>\$ |                                   | Price<br>per<br>Unit of<br>8.92 lbs<br>\$ | Number of Units       |
|       | <i>a</i>               |                     | <i>b</i>   | <i>a</i>                          | <i>c</i>                                  | <i>c</i>              |
| 1870  | <i>d</i> 954,100,000   | .235                | .2044      | 194,967,000                       | 1.823                                     | 106,954,610           |
| 71    | <i>d</i> 1,459,700,000 | .1486               | .133       | 194,125,500                       | 1.186                                     | 163,632,370           |
| 72    | 1,384,084,494          | .2082               | .1853      | 256,587,000                       | 1.654                                     | 155,155,872           |
| 70-72 | 3,797,884,494          | .....               | .17        | 645,679,500                       | 1.517                                     | 425,742,852           |
| 73    | 1,833,188,931          | .1642               | .1444      | 264,655,912                       | 1.288                                     | 205,500,479           |
| 74    | 1,940,648,352          | .1611               | .1448      | 280,919,520                       | 1.291                                     | 217,546,680           |
| 75    | 1,783,644,032          | .1437               | .125       | 222,907,050                       | 1.115                                     | 199,946,496           |
| 76    | 2,157,958,142          | .1261               | .1133      | 244,316,587                       | 1.015                                     | 241,907,108           |
| 77    | 2,095,901,297          | .109                | .104       | 217,972,370                       | .927                                      | 234,950,535           |
| 78    | 2,260,285,666          | .0907               | .0899      | 203,360,000                       | .803                                      | 253,378,023           |
| 79    | 2,404,410,373          | .0806               | .0806      | 193,854,641                       | .719                                      | 269,534,403           |
| 1880  | 2,771,797,156          | .....               | .0874      | 242,140,987                       | .779                                      | 310,718,461           |
| 81    | 3,199,822,682          | .....               | .0876      | 280,266,242                       | .781                                      | 358,700,123           |
| 82    | 2,588,240,050          | .....               | .1001      | 259,016,315                       | .893                                      | 290,141,710           |
| 83    | 3,405,070,410          | .....               | .0909      | 309,696,500                       | .811                                      | 381,708,393           |
| 84    | 2,757,544,422          | .....               | .0908      | 250,594,750                       | .81                                       | 309,120,730           |
| 85    | 2,742,966,011          | .....               | .0926      | 253,993,385                       | .826                                      | 307,486,490           |
| 86    | 3,182,305,659          | .....               | .0845      | 269,989,812                       | .757                                      | 356,736,464           |
| 87    | 3,157,378,443          | .....               | .0815      | 257,295,327                       | .727                                      | 353,942,123           |
| 88    | 3,439,172,391          | .....               | .0846      | 291,045,346                       | .755                                      | 385,531,225           |
| 89    | 3,439,934,799          | .....               | .0849      | 292,139,209                       | .757                                      | 385,616,691           |
| 1890  | 3,627,366,183          | .....               | .085       | 308,424,271                       | .758                                      | 406,627,749           |
| 91    | 4,316,043,982          | .....               | .081       | 350,000,000                       | .723                                      | 483,828,530           |
| 92    | 4,506,575,984          | .....               | .069       | 313,000,000                       | .6197                                     | 505,187,168           |
| 93    | 3,352,658,458          | .....               | .080       | 268,000,000                       | .713                                      | 375,833,013           |
| 94    | 3,769,381,478          | .....               | .070       | 263,857,000                       | .624                                      | 422,547,664           |
| 70-94 | 68,530,179,395         | .....               | .....      | 6,483,124,724                     | .844                                      | 7,682,233,109         |
|       | True average..         | .....               | .095       |                                   |   |                       |
|       | Value of comm          | odity               | unit=      | .84736 ÷ .095=                    | 8.92                                      | lbs. Unit for Cotton. |
| 1895  | <i>e</i> 5,036,964,409 | .....               | .052       | 262,426,000                       | .465                                      | 564,643,710           |
| 73-95 | .....                  | .....               | .....      | 6,099,871,224                     | .780                                      | 7,821,133,967         |

*a* From U. S. Statistical Abstract, 1894, page 287.

*b* Computed from amount and value.

*c* Computed.

*d* From Agricultural Reports. Values reduced to gold.

*e* From U. S. Statistical Abstract, 1895, page 285.

TABLE 9.

Production and Value of **Wool** in the United States.  
Gold Basis.

| Year  | Product<br>in Pounds                | PRICE<br>PER POUND  |                 | Total Value of<br>Crop in Dollars | COMMODITY UNITS                                 |                      |
|-------|-------------------------------------|---------------------|-----------------|-----------------------------------|---|----------------------|
|       |                                     | Currency<br>\$<br>b | Gold<br>\$<br>b |                                   | Price<br>per<br>Unit of<br>2.38 lbs.<br>\$<br>c | Number of Units<br>c |
| 1870  | 162,000,000                         | .446                | .388            | 62,856,000                        | .923  | 68,056,200           |
| 71    | 160,000,000                         | .59                 | .528            | 84,480,000                        | 1.257   | 67,216,000           |
| 72    | 150,000,000                         | .69                 | .614            | 92,100,000                        | 1.462   | 63,015,000           |
| 70-72 | 472,000,000                         | .....               | .507            | 239,436,000                       | 1.208   | 198,287,200          |
| 73    | 158,000,000                         | .473                | .416            | 65,728,000                        | .99   | 66,375,800           |
| 74    | 170,000,000                         | .507                | .456            | 77,520,000                        | 1.086   | 71,417,000           |
| 75    | 181,000,000                         | .49                 | .426            | 77,106,000                        | 1.014   | 76,038,100           |
| 76    | 192,000,000                         | .347                | .312            | 59,904,000                        | .743  | 80,659,200           |
| 77    | 200,000,000                         | .437                | .416            | 83,200,000                        | .99   | 84,020,000           |
| 78    | 208,250,000                         | .347                | .344            | 71,638,000                        | .819  | 87,485,825           |
| 79    | 211,000,000                         | .363                | .363            | 76,593,000                        | .864  | 88,641,100           |
| 1880  | 232,500,000                         | .....               | .453            | 105,322,500                       | 1.078   | 97,673,250           |
| 81    | 240,000,000                         | .....               | .406            | 97,440,000                        | .967  | 100,824,000          |
| 82    | 272,000,000                         | .....               | .403            | 109,616,000                       | .959  | 114,267,200          |
| 83    | 290,000,000                         | .....               | .376            | 109,040,000                       | .895  | 121,829,000          |
| 84    | 300,000,000                         | .....               | .33             | 99,000,000                        | .786  | 126,030,000          |
| 85    | 308,000,000                         | .....               | .303            | 93,324,000                        | .722  | 129,390,800          |
| 86    | 302,000,000                         | .....               | .316            | 95,432,000                        | .753  | 126,870,200          |
| 87    | 285,000,000                         | .....               | .35             | 99,750,000                        | .833  | 119,728,500          |
| 88    | 269,000,000                         | .....               | .31             | 83,390,000                        | .738  | 113,006,900          |
| 89    | 265,000,000                         | .....               | .353            | 93,345,000                        | .839  | 111,326,500          |
| 1890  | 276,000,000                         | .....               | .33             | 91,080,000                        | .785  | 115,947,600          |
| 91    | 285,000,000                         | .....               | .316            | 90,060,000                        | .752  | 119,728,500          |
| 92    | 294,000,000                         | .....               | .306            | 89,964,000                        | .728  | 123,509,400          |
| 93    | 303,153,000                         | .....               | .25             | 75,788,250                        | .595  | 127,354,575          |
| 94    | 298,057,384                         | .....               | .196            | 58,419,247                        | .466  | 125,213,907          |
| 70-94 | 6,011,960,384                       | .....               | .....           | 2,142,095,997                     | .848  | 2,525,624,557        |
|       | True average,<br>Value of commodity |                     | .356<br>unit=   | .84736 ÷ .356=                    | 2.380   | lbs. Unit for Wool.  |
| 1895  | 309,748,000                         | .....               | .193            | 59,781,364                        | .459  | 130,125,135          |
| 73-95 | .....                               | .....               | .....           | 1,962,441,361                     | .799  | 2,457,462,492        |

a From U. S. Statistical Abstract, 1894, page 273.

b Average of prices given for the three grades of washed Ohio fleece wool for month of July of each year. See U. S. Statistical Abstract, 1894, page 409.

c Computed.

d From U. S. Statistical Abstract, 1895, pp. 292 and 375.



TABLE 10.

Number and Value of **Horses** in the United States.  
Gold Basis.

| On<br>Jan.<br>1st | Number<br>of Animals<br><br><i>a</i> | PRICE<br>PER HEAD               |                        | Value<br>in Dollars<br><br><i>a</i> | COMMODITY UNITS  |                                    |
|-------------------|--------------------------------------|---------------------------------|------------------------|-------------------------------------|--|------------------------------------|
|                   |                                      | Cur-<br>rency<br>\$<br><i>b</i> | Gold<br>\$<br><i>b</i> |                                     | Price<br>pr. Unit<br>of .0132<br>horse<br>\$<br><i>b</i> | Number of<br>Units<br><br><i>b</i> |
| 1870              | 8,248,800                            | 93.36                           | 81.38                  | 584,047,931                         | .931   | 625,588,992                        |
| 71                | 8,702,000                            | 62.37                           | 55.82                  | 611,515,540                         | .927   | 659,959,680                        |
| 72                | 8,990,900                            | 73.35                           | 65.31                  | 587,140,045                         | .861   | 681,869,856                        |
| 70-72             | 25,941,700                           | .....                           | 68.72                  | 1,782,703,516                       | .906   | 1,967,418,528                      |
| 73                | 9,222,470                            | 74.22                           | 65.23                  | 601,643,818                         | .86  | 699,432,125                        |
| 74                | 9,333,800                            | 71.45                           | 64.23                  | 599,567,737                         | .847   | 707,875,392                        |
| 75                | 9,504,200                            | 68.01                           | 59.16                  | 562,342,716                         | .78  | 720,798,528                        |
| 76                | 9,735,300                            | 64.96                           | 58.34                  | 567,937,392                         | .769   | 738,325,152                        |
| 77                | 10,155,400                           | 60.11                           | 57.35                  | 582,137,125                         | .756   | 770,185,536                        |
| 78                | 10,329,700                           | 58.22                           | 57.75                  | 596,007,171                         | .76  | 783,404,448                        |
| 79                | 10,938,700                           | 52.40                           | 52.40                  | 573,254,808                         | .69  | 829,591,008                        |
| 1880              | 11,201,800                           | .....                           | 54.75                  | 613,296,611                         | .722   | 849,544,512                        |
| 81                | 11,429,626                           | .....                           | 58.48                  | 667,954,325                         | .771   | 866,822,836                        |
| 82                | 10,521,554                           | .....                           | 58.54                  | 615,824,914                         | .772   | 797,954,655                        |
| 83                | 10,838,111                           | .....                           | 70.64                  | 765,041,308                         | .93  | 821,962,338                        |
| 84                | 11,169,683                           | .....                           | 74.71                  | 833,734,400                         | .984   | 847,108,759                        |
| 85                | 11,564,572                           | .....                           | 73.72                  | 852,282,947                         | .972   | 877,057,140                        |
| 86                | 12,077,657                           | .....                           | 71.32                  | 860,823,208                         | .94  | 915,969,507                        |
| 87                | 12,496,744                           | .....                           | 72.19                  | 901,685,755                         | .951   | 947,753,065                        |
| 88                | 13,172,936                           | .....                           | 71.83                  | 946,096,154                         | .947   | 999,035,466                        |
| 89                | 13,663,294                           | .....                           | 71.90                  | 982,194,827                         | .948   | 1,036,224,217                      |
| 1890              | 14,213,837                           | .....                           | 68.86                  | 978,516,562                         | .907   | 1,077,977,398                      |
| 91                | 14,056,750                           | .....                           | 67.03                  | 941,823,222                         | .883   | 1,066,063,920                      |
| 92                | 15,498,140                           | .....                           | 65.01                  | 1,007,593,636                       | .857   | 1,175,378,938                      |
| 93                | 16,206,802                           | .....                           | 61.25                  | 992,225,185                         | .807   | 1,229,123,864                      |
| 94                | 16,081,139                           | .....                           | 47.84                  | 769,224,799                         | .631   | 1,219,593,582                      |
| 70-94             | 289,353,915                          | .....                           | .....                  | 18,593,912,136                      | .847   | 21,944,600,914                     |
|                   | True average..                       | .....                           | 64.26                  |                                     |  |                                    |
|                   | Value of commodity                   | .....                           | unit=                  | .84736 ÷ 64.26=                     | .0132  | ani. Unit for horses.              |
| 1895              | c 15,893,318                         | .....                           | 36.29                  | 576,730,580                         | .479   | 1,205,349,237                      |
| 73-95             | .....                                | .....                           | .....                  | 17,387,939,200                      | .821   | 21,182,531,623                     |

*a* From Report of the Statistician, Department of Agriculture, January and February, 1895, page 5.

*b* Computed.

*c* From U. S. Statistical Abstract, 1895, page 307.

TABLE 11.  
Number and Value of **Mules** in the United States.  
Gold Basis.

| On<br>Jan.<br>1st | Number<br>of Animals               | PRICE<br>PER HEAD               |                        | Value<br>in Dollars | COMMODITY UNITS                                      |                                |
|-------------------|------------------------------------|---------------------------------|------------------------|---------------------|--|--------------------------------|
|                   |                                    | Cur-<br>rency<br>\$<br><i>b</i> | Gold<br>\$<br><i>b</i> |                     | Price<br>pr. Unit<br>.0113<br>Mule<br>\$<br><i>b</i> | Number of<br>Units<br><i>b</i> |
| 1870              | 1,179,500                          | 109.00                          | 94.83                  | 111,868,772         | 1.07   | 104,550,880                    |
| 71                | 1,242,300                          | 101.50                          | 90.82                  | 112,884,368         | 1.025  | 110,117,472                    |
| 72                | 1,276,300                          | 94.84                           | 84.41                  | 107,714,311         | .952   | 113,131,232                    |
| 70-72             | 3,689,100                          | .....                           | 89.90                  | 332,467,451         | 1.014  | 327,799,584                    |
| 73                | 1,310,000                          | 95.09                           | 83.59                  | 109,574,456         | .943   | 116,118,400                    |
| 74                | 1,339,350                          | 89.22                           | 80.21                  | 107,432,171         | .905   | 118,719,984                    |
| 75                | 1,393,750                          | 80.04                           | 69.63                  | 97,007,360          | .785   | 123,542,000                    |
| 76                | 1,414,500                          | 75.36                           | 67.67                  | 95,695,472          | .764   | 125,381,280                    |
| 77                | 1,443,500                          | 68.94                           | 65.77                  | 94,904,851          | .742   | 127,951,840                    |
| 78                | 1,637,500                          | 63.67                           | 63.16                  | 103,488,355         | .713   | 145,148,000                    |
| 79                | 1,713,100                          | .....                           | 56.06                  | 96,033,971          | .633   | 151,849,184                    |
| 1880              | 1,729,500                          | .....                           | 61.25                  | 105,948,319         | .691   | 153,302,880                    |
| 81                | 1,720,731                          | .....                           | 69.77                  | 120,096,164         | .787   | 152,225,596                    |
| 82                | 1,835,166                          | .....                           | 71.34                  | 130,945,378         | .805   | 162,669,114                    |
| 83                | 1,871,079                          | .....                           | 79.45                  | 148,732,390         | .897   | 165,852,443                    |
| 84                | 1,914,126                          | .....                           | 84.22                  | 161,214,976         | .950   | 169,668,128                    |
| 85                | 1,972,569                          | .....                           | 82.35                  | 162,497,097         | .929   | 174,848,516                    |
| 86                | 2,052,593                          | .....                           | 79.58                  | 163,381,096         | .898   | 181,941,844                    |
| 87                | 2,117,141                          | .....                           | 78.89                  | 167,057,538         | .89  | 187,663,378                    |
| 88                | 2,191,727                          | .....                           | 79.78                  | 174,853,563         | .90  | 194,274,681                    |
| 89                | 2,257,574                          | .....                           | 79.49                  | 179,444,481         | .896   | 200,111,359                    |
| 1890              | 2,331,027                          | .....                           | 78.21                  | 182,394,099         | .882   | 206,622,233                    |
| 91                | 2,296,532                          | .....                           | 77.88                  | 178,847,370         | .879   | 203,564,596                    |
| 92                | 2,314,699                          | .....                           | 75.54                  | 174,882,070         | .852   | 205,174,919                    |
| 93                | 2,331,128                          | .....                           | 70.66                  | 164,763,751         | .797   | 206,631,186                    |
| 94                | 2,352,231                          | .....                           | 62.16                  | 146,232,811         | .701   | 208,501,756                    |
| 70-94             | 45,237,623                         | .....                           | .....                  | 3,397,895,190       | .847   | 4,009,862,963                  |
|                   | True Average<br>Value of Commodity | .....                           | 75.11<br>unit=         | .8473 ÷ 75.11=      | .0113  | ani. Unit for Mules.           |
| 1895 <sup>c</sup> | 2,333,108                          | .....                           | 47.54                  | 110,927,834         | .536   | 206,806,693                    |
| 73-95             | .....                              | .....                           | .....                  | 3,176,355,573       | .817   | 3,888,870,012                  |

<sup>a</sup> From Report of the Statistician, Department of Agriculture, January and February, 1895, page 5.

<sup>b</sup> Computed.

<sup>c</sup> From U. S. Statistical Abstract, 1895, page 307.

TABLE 12.

Number and Value of **Milch Cows** in the United States.  
Gold Basis.

| On<br>Jan.<br>1st | Number<br>of Animals<br><br><i>a</i> | PRICE<br>PER HEAD               |                        | Value<br>in Dollars<br><br><i>a</i> | COMMODITY UNITS                                     |                                    |
|-------------------|--------------------------------------|---------------------------------|------------------------|-------------------------------------|---|------------------------------------|
|                   |                                      | Cur-<br>rency<br>\$<br><i>b</i> | Gold<br>\$<br><i>b</i> |                                     | Price<br>pr. Unit<br>.0332<br>Cow<br>\$<br><i>b</i> | Number of<br>Units<br><br><i>b</i> |
| 1870              | 10,095,600                           | 39.13                           | 34.04                  | 343,598,448                         | 1.129   | 304,382,340                        |
| 71                | 10,023,000                           | 37.33                           | 33.41                  | 334,890,288                         | 1.108   | 302,193,450                        |
| 72                | 10,303,500                           | 31.97                           | 28.46                  | 293,173,995                         | .944  | 310,650,525                        |
| 70-72             | 30,422,100                           | .....                           | 31.94                  | 971,662,731                         | 1.059   | 917,226,315                        |
| 73                | 10,575,900                           | 29.74                           | 26.14                  | 276,321,500                         | .867  | 318,863,385                        |
| 74                | 10,705,300                           | 28.00                           | 25.17                  | 269,348,769                         | .834  | 322,764,795                        |
| 75                | 10,906,800                           | 28.54                           | 24.83                  | 270,648,147                         | .823  | 328,840,020                        |
| 76                | 11,085,400                           | 28.90                           | 25.96                  | 287,671,362                         | .861  | 334,224,810                        |
| 77                | 11,260,800                           | 27.32                           | 26.07                  | 293,587,023                         | .864  | 339,513,120                        |
| 78                | 11,300,100                           | 26.42                           | 26.20                  | 296,111,867                         | .869  | 340,698,015                        |
| 79                | 11,826,400                           | .....                           | 21.73                  | 256,953,928                         | .721  | 356,565,960                        |
| 1880              | 12,027,000                           | .....                           | 23.27                  | 279,893,420                         | .771  | 362,614,050                        |
| 81                | 12,368,653                           | .....                           | 23.96                  | 296,277,060                         | .794  | 372,914,888                        |
| 82                | 12,611,632                           | .....                           | 25.88                  | 326,480,310                         | .859  | 380,240,705                        |
| 83                | 13,125,685                           | .....                           | 30.22                  | 396,575,405                         | 1.002   | 395,739,402                        |
| 84                | 13,501,206                           | .....                           | 31.36                  | 423,486,649                         | 1.04  | 407,061,361                        |
| 85                | 13,904,722                           | .....                           | 29.70                  | 412,903,093                         | .985  | 419,227,368                        |
| 86                | 14,235,388                           | .....                           | 27.40                  | 389,985,523                         | .909  | 429,196,948                        |
| 87                | 14,522,083                           | .....                           | 26.08                  | 378,789,589                         | .865  | 437,840,802                        |
| 88                | 14,856,414                           | .....                           | 24.66                  | 366,252,173                         | .818  | 447,920,882                        |
| 89                | 15,298,625                           | .....                           | 23.95                  | 366,226,376                         | .794  | 461,253,544                        |
| 1890              | 15,952,883                           | ..                              | 22.08                  | 352,152,133                         | .732  | 480,979,422                        |
| 91                | 16,019,591                           | .....                           | 21.63                  | 346,397,900                         | .717  | 482,990,669                        |
| 92                | 16,416,351                           | .....                           | 21.41                  | 351,378,132                         | .71   | 494,952,983                        |
| 93                | 16,424,087                           | .....                           | 21.75                  | 357,299,785                         | .721  | 495,186,223                        |
| 94                | 16,487,400                           | .....                           | 21.78                  | 358,998,661                         | .722  | 497,095,110                        |
| 70-94             | 325,834,520                          | .....                           | .....                  | 8,325,407,536                       | .847  | 9,823,910,777                      |
|                   | True average,<br>Value of comm       | odity                           | unit=                  | 25.55<br>.84736 ÷ 25.55 =           | .0332   | cow. Unit for Cows.                |
| 1895              | c 16,504,629                         | .....                           | 21.98                  | 362,601,729                         | .729  | 497,614,564                        |
| 73-95             | .....                                | .....                           | .....                  | 7,716,346,534                       | .821  | 9,404,299,026                      |

*a* From Report of the Statistician, Department of Agriculture, January and February, 1895, page 5.

*b* Computed.

*c* From U. S. Statistical Abstract, 1895, page 307.

**TABLE 13.**  
**Number and Value of Oxen and Other Cattle in U. S.**  
**Gold Basis.**

| On<br>Jan.<br>1st | Number<br>of Animals                  | PRICE<br>PER HEAD        |                 | Value<br>in Dollars | COMMODITY UNITS                            |                    |
|-------------------|---------------------------------------|--------------------------|-----------------|---------------------|--|--------------------|
|                   |                                       | Cur-<br>rency<br>\$<br>b | Gold<br>\$<br>b |                     | Price<br>pr. Unit<br>.048<br>Ox<br>\$<br>b | Number of<br>Units |
|                   | a                                     | b                        | b               | a                   | b  | b                  |
| 1870              | 15,388,500                            | 22.55                    | 19.62           | 301,826,003         | .944                                       | 319,619,145        |
| 71                | 16,212,200                            | 22.81                    | 20.42           | 331,096,350         | .983                                       | 336,727,394        |
| 72                | 16,389,800                            | 19.63                    | 17.47           | 286,190,797         | .841                                       | 340,416,146        |
| 70-72             | 47,990,500                            | .....                    | 19.15           | 919,113,150         | .922                                       | 996,762,685        |
| 73                | 16,413,800                            | 20.06                    | 17.64           | 289,453,606         | .849                                       | 340,914,626        |
| 74                | 16,218,100                            | 19.16                    | 17.22           | 279,274,173         | .829                                       | 336,849,937        |
| 75                | 16,313,400                            | 18.69                    | 16.26           | 265,227,207         | .783                                       | 338,829,318        |
| 76                | 16,783,300                            | 19.05                    | 17.10           | 287,021,911         | .823                                       | 348,630,681        |
| 77                | 17,956,100                            | 17.10                    | 16.32           | 292,978,538         | .785                                       | 372,948,197        |
| 78                | 19,223,300                            | 17.54                    | 17.01           | 326,905,369         | .819                                       | 399,267,941        |
| 79                | 21,408,100                            | 15.40                    | 15.39           | 329,543,327         | .741                                       | 444,646,237        |
| 1880              | 21,231,000                            | .....                    | 16.10           | 341,761,154         | .775                                       | 440,967,870        |
| 81                | 20,937,702                            | .....                    | 17.33           | 362,861,509         | .834                                       | 434,876,071        |
| 82                | 23,280,238                            | .....                    | 19.89           | 463,069,499         | .958                                       | 483,530,543        |
| 83                | 28,046,077                            | .....                    | 21.80           | 611,549,109         | 1.05                                       | 582,517,019        |
| 84                | 29,046,101                            | .....                    | 22.83           | 683,229,054         | 1.133                                      | 603,287,518        |
| 85                | 29,866,573                            | .....                    | 23.25           | 694,382,913         | 1.119                                      | 620,328,721        |
| 86                | 31,275,242                            | .....                    | 21.16           | 661,956,274         | 1.019                                      | 649,586,776        |
| 87                | 33,511,750                            | .....                    | 19.79           | 663,137,926         | .953                                       | 696,039,048        |
| 88                | 34,378,363                            | .....                    | 17.79           | 611,750,520         | .857                                       | 714,038,600        |
| 89                | 35,032,417                            | .....                    | 17.05           | 597,236,812         | .821                                       | 727,623,301        |
| 1890              | 36,849,024                            | .....                    | 15.21           | 560,625,137         | .732                                       | 765,354,228        |
| 91                | 36,875,648                            | .....                    | 14.75           | 544,127,908         | .71  | 765,907,209        |
| 92                | 37,651,239                            | .....                    | 15.16           | 570,749,155         | .729                                       | 782,016,234        |
| 93                | 35,954,196                            | .....                    | 15.24           | 547,882,204         | .734                                       | 746,768,651        |
| 94                | 36,608,168                            | .....                    | 14.66           | 536,789,747         | .706                                       | 760,341,649        |
| 70-94             | 642,852,338                           | .....                    | .....           | 11,440,626,202      | .857                                       | 13,352,043,060     |
|                   | True average...<br>Value of commodity | .....<br>unit=           | 17.60<br>unit=  | .8473 ÷ 17.60 =     | .0482                                      | ox. Unit for Oxen. |
| 1895              | 34,364,216                            | .....                    | 14.57           | 482,999,129         | .677                                       | 713,744,766        |
| 73-95             | .....                                 | .....                    | .....           | 11,004,512,181      | .842                                       | 13,069,025,141     |

a From Report of the Statistician, Department of Agriculture, January and February, 1895, page 5.

b Computed.

c From U. S. Statistical Abstract, 1895, page 308.

TABLE 14.

Number and value of **Sheep** in the United States.  
Gold Basis.

| On<br>Jan.<br>1st | Number<br>of Animals | PRICE<br>PER HEAD   |                 | Value<br>in Dollars | COMMODITY UNITS                                  |                    |
|-------------------|----------------------|---------------------|-----------------|---------------------|--|--------------------|
|                   |                      | Currency<br>\$<br>b | Gold<br>\$<br>b |                     | Price<br>pr. Unit<br>of 3774<br>Sheep<br>\$<br>b | Number of<br>Units |
|                   | a                    |                     |                 | a                   |  | b                  |
| 1870              | 40,853,000           | 2.286               | 1.988           | 81,227,057          | .751   | 108,219,597        |
| 71                | 31,851,000           | 2.324               | 2.080           | 66,262,974          | .785   | 84,373,299         |
| 72                | 31,679,300           | 2.803               | 2.49            | 79,006,365          | .941   | 83,918,466         |
| 70-72             | 104,383,300          | .....               | 2.169           | 226,496,396         | .819   | 276,511,362        |
| 73                | 33,002,400           | 2.967               | 2.61            | 86,073,746          | .985   | 87,423,357         |
| 74                | 33,928,200           | 2.615               | 2.35            | 79,732,822          | .887   | 89,875,802         |
| 75                | 33,783,600           | 2.792               | 2.43            | 82,058,967          | .917   | 89,492,756         |
| 76                | 35,935,300           | 2.607               | 2.34            | 84,112,354          | .884   | 95,192,610         |
| 77                | 35,804,200           | 2.26                | 2.155           | 77,171,620          | .814   | 94,845,326         |
| 78                | 35,740,500           | 2.255               | 2.24            | 79,958,237          | .845   | 94,676,585         |
| 79                | 38,123,800           | .....               | 2.07            | 79,023,984          | .783   | 100,989,946        |
| 1880              | 40,765,900           | .....               | 2.21            | 90,230,537          | .856   | 107,988,869        |
| 81                | 43,576,899           | .....               | 2.39            | 104,070,759         | .901   | 115,435,205        |
| 82                | 45,016,224           | .....               | 2.37            | 106,594,954         | .894   | 119,247,977        |
| 83                | 49,237,291           | .....               | 2.52            | 124,565,835         | .953   | 130,429,584        |
| 84                | 50,626,626           | .....               | 2.37            | 119,902,706         | .894   | 134,109,932        |
| 85                | 50,360,243           | .....               | 2.14            | 107,960,650         | .869   | 133,404,284        |
| 86                | 48,322,331           | .....               | 1.91            | 92,443,867          | .722   | 128,005,855        |
| 87                | 44,759,314           | .....               | 2.01            | 89,872,839          | .758   | 118,567,423        |
| 88                | 43,544,755           | .....               | 2.05            | 89,279,926          | .774   | 115,350,056        |
| 89                | 42,599,079           | .....               | 2.13            | 90,640,369          | .804   | 112,844,960        |
| 1890              | 44,336,072           | .....               | 2.27            | 100,659,761         | .857   | 117,446,255        |
| 91                | 43,431,136           | .....               | 2.49            | 108,397,447         | .942   | 115,049,079        |
| 92                | 44,938,365           | .....               | 2.58            | 116,121,290         | .976   | 119,041,729        |
| 93                | 47,273,553           | .....               | 2.66            | 125,909,264         | 1.006  | 125,227,642        |
| 94                | 45,048,017           | .....               | 1.98            | 89,186,110          | .747   | 119,332,197        |
| 70-94             | 1,034,537,105        | .....               | .....           | 2,350,264,440       | .857   | 2,740,488,791      |
|                   | True average..       | .....               | 2.245           |                     |  |                    |
|                   | Value of commodity   | unit=               | .8473 ÷ 2.245=  |                     | .3774 ani. Unit for Sheep.                       |                    |
| 1895              | 42,294,064           | .....               | 1.577           | 66,685,767          | .595   | 112,036,976        |
| 73-95             | .....                | .....               | .....           | 2,190,453,811       | .850   | 2,576,014,405      |

a From Reports of the Statistician, Department of Agriculture, January and February, 1895, page 5.

b Computed.

c From U. S. Statistical Abstract, 1895, page 308.

**TABLE 15.**  
**Number and value of Swine in the United States.**  
**Gold Basis.**

| On<br>Jan.<br>1st | Number<br>of Animals<br><br><i>a</i> | PRICE<br>PER HEAD               |                        | Value<br>in Dollars<br><br><i>a</i> | COMMODITY UNITS   |                                    |
|-------------------|--------------------------------------|---------------------------------|------------------------|-------------------------------------|---|------------------------------------|
|                   |                                      | Cur-<br>rency<br>\$<br><i>b</i> | Gold<br>\$<br><i>b</i> |                                     | Price<br>pr. Unit<br>of .1686<br>animal<br>\$<br><i>b</i> | Number of<br>Units<br><br><i>b</i> |
| 1870              | 26,751,400                           | 6.995                           | 6.086                  | 162,856,607                         | 1.026   | 158,716,056                        |
| 71                | 29,457,500                           | 6.199                           | 5.548                  | 163,429,105                         | .935  | 174,771,348                        |
| 72                | 31,796,300                           | 4.362                           | 3.882                  | 123,473,107                         | .654  | 188,647,448                        |
| 70-72             | 88,005,200                           | .....                           | 5.11                   | 449,758,819                         | .861  | 522,134,852                        |
| 73                | 32,632,050                           | 4.09                            | 3.595                  | 117,368,331                         | .606  | 193,605,953                        |
| 74                | 30,860,900                           | 4.358                           | 3.918                  | 120,974,408                         | .661  | 183,097,719                        |
| 75                | 28,062,200                           | 5.337                           | 4.644                  | 130,386,234                         | .783  | 166,493,033                        |
| 76                | 25,726,800                           | 6.806                           | 6.112                  | 157,213,295                         | 1.03  | 152,637,104                        |
| 77                | 28,077,100                           | 6.094                           | 5.814                  | 163,207,645                         | .98   | 166,581,434                        |
| 78                | 32,262,500                           | 4.984                           | 4.944                  | 159,551,824                         | .833  | 191,413,413                        |
| 79                | 34,766,100                           | 3.182                           | 3.182                  | 110,613,044                         | .536  | 206,267,271                        |
| 1880              | 34,034,100                           | .....                           | 4.282                  | 145,781,515                         | .722  | 201,924,315                        |
| 81                | 36,247,603                           | .....                           | 4.705                  | 170,535,435                         | .793  | 215,057,029                        |
| 82                | 44,122,200                           | .....                           | 5.972                  | 263,543,195                         | 1.007   | 261,777,012                        |
| 83                | 43,270,086                           | .....                           | 6.746                  | 291,951,221                         | 1.137   | 256,721,420                        |
| 84                | 44,200,893                           | .....                           | 5.572                  | 246,301,139                         | .939  | 262,243,899                        |
| 85                | 45,142,637                           | .....                           | 5.016                  | 226,401,683                         | .845  | 267,831,384                        |
| 86                | 46,092,043                           | .....                           | 4.263                  | 196,569,894                         | .719  | 273,464,091                        |
| 87                | 44,612,836                           | .....                           | 4.483                  | 200,043,291                         | .756  | 264,687,956                        |
| 88                | 44,346,525                           | .....                           | 4.98                   | 220,811,082                         | .839  | 263,107,933                        |
| 89                | 50,301,592                           | .....                           | 5.791                  | 291,307,193                         | .976  | 298,439,345                        |
| 1890              | 51,602,780                           | .....                           | 4.717                  | 243,418,336                         | .795  | 306,159,294                        |
| 91                | 50,625,106                           | .....                           | 4.151                  | 210,193,923                         | .699  | 300,358,754                        |
| 92                | 52,398,019                           | .....                           | 4.60                   | 241,031,415                         | .775  | 310,877,447                        |
| 93                | 46,094,807                           | .....                           | 6.409                  | 295,426,492                         | 1.08  | 273,480,490                        |
| 94                | 45,206,498                           | .....                           | 5.98                   | 270,384,626                         | 1.008   | 268,210,152                        |
| 70-94             | 978,690,595                          | .....                           | .....                  | 4,922,774,040                       | .848  | 5,806,571,300                      |
|                   | True average..                       | .....                           | 5.027                  |                                     |   |                                    |
|                   | Value of commodity                   | unit=                           | .84736 ÷ 5.027=        |                                     | .1686   | ani. Unit for Swine.               |
| 1895              | 44,165,716                           | .....                           | 4.97                   | 219,501,267                         | .833  | 262,035,193                        |
| 73-95             | .....                                | .....                           | .....                  | 4,692,516,488                       | .846  | 5,546,471,641                      |

*a* From Report of the Statistician, Department of Agriculture, January and February, 1895, page 5.

*b* Computed.

*c* From U. S. Statistical Abstract, 1895, page 308.

TABLE 16.

Production and value of **Pig Iron** in the United States.  
Gold Basis.

| Year  | Product in<br>Tons<br>(2240 Pounds) | PRICE PER<br>TON         |                 | Total Value of<br>Product in Dollars | COMMODITY UNITS                                 |                         |
|-------|-------------------------------------|--------------------------|-----------------|--------------------------------------|---|-------------------------|
|       |                                     | Cur-<br>rency<br>\$<br>b | Gold<br>\$<br>b |                                      | Price<br>pr. Unit<br>of .0415<br>ton<br>\$<br>d | Number of<br>Units<br>d |
| 1870  | c 1,665,000                         | 33.25                    | 28.93           | 48,168,450                           | 1.201   | 40,109,850              |
| 71    | c 1,704,000                         | 35.12                    | 31.43           | 53,556,720                           | 1.305   | 41,049,360              |
| 72    | c 2,549,000                         | 48.88                    | 43.47           | 110,881,500                          | 1.805   | 61,405,410              |
| 70-72 | 5,918,000                           | .....                    | 35.92           | 212,606,670                          | 1.492   | 142,564,620             |
| 73    | c 2,562,000                         | 42.75                    | 37.58           | 96,279,960                           | 1.56  | 61,718,580              |
| 74    | 2,401,262                           | 30.25                    | 27.19           | 65,290,314                           | 1.129   | 57,846,402              |
| 75    | 2,023,733                           | 25.50                    | 22.16           | 44,886,398                           | .921  | 48,751,728              |
| 76    | 1,868,961                           | 22.25                    | 19.99           | 37,341,841                           | .829  | 45,023,270              |
| 77    | 2,066,594                           | 18.88                    | 18.01           | 37,219,358                           | .747  | 49,784,250              |
| 78    | 2,301,215                           | 17.63                    | 17.49           | 40,248,250                           | .726  | 55,436,269              |
| 79    | 2,741,853                           | 21.50                    | 21.50           | 58,049,840                           | .879  | 66,051,239              |
| 1880  | 3,835,191                           | .....                    | 28.50           | 109,302,944                          | 1.183   | 92,389,751              |
| 81    | 4,144,254                           | .....                    | 25.12           | 104,103,660                          | 1.043   | 99,835,079              |
| 82    | 4,623,323                           | .....                    | 25.75           | 119,050,567                          | 1.069   | 111,375,851             |
| 83    | 4,595,510                           | .....                    | 22.38           | 102,847,514                          | .929  | 110,705,836             |
| 84    | 4,097,868                           | .....                    | 19.88           | 81,465,616                           | .825  | 98,717,640              |
| 85    | 4,044,526                           | .....                    | 18.00           | 72,801,468                           | .747  | 97,432,631              |
| 86    | 5,683,329                           | .....                    | 18.71           | 106,335,086                          | .777  | 136,911,396             |
| 87    | 6,417,148                           | .....                    | 20.92           | 134,246,736                          | .869  | 154,589,095             |
| 88    | 6,489,738                           | .....                    | 18.83           | 122,526,253                          | .784  | 156,337,788             |
| 89    | 7,603,642                           | .....                    | 17.75           | 134,964,645                          | .737  | 183,171,736             |
| 1890  | 9,202,703                           | .....                    | 18.40           | 169,329,735                          | .764  | 221,693,116             |
| 91    | 8,279,870                           | .....                    | 17.52           | 145,063,322                          | .727  | 199,462,068             |
| 92    | 9,157,000                           | .....                    | 15.75           | 144,222,750                          | .654  | 220,592,130             |
| 93    | 7,124,502                           | .....                    | 14.52           | 103,447,769                          | .603  | 171,629,253             |
| 94    | e 7,000,000                         | .....                    | 12.66           | 88,620,000                           | .526  | 168,630,000             |
| 70-94 | 114,182,222                         | .....                    | .....           | 2,330,250,696                        | .847  | 2,750,649,728           |
|       | True average...                     | .....                    | 20.41           |                                      |   |                         |
|       | Value of commodity                  | unit=                    |                 | .84736 ÷ 20.41=                      | .0415   | ton. Unit for Pig Iron. |
| 1894  | f 6,657,388                         | .....                    | 12.66           | 84,282,532                           | .526  | 160,376,477             |
| 95    | 9,446,308                           | .....                    | 13.10           | 123,746,634                          | .544  | 227,561,560             |
| 73-95 | .....                               | .....                    | .....           | 2,237,053,192                        | .791  | 2,827,393,145           |

a From U. S. Statistical Abstract, 1894, page 274, unless otherwise noted.

b From U. S. Statistical Abstract, 1894, page 412. Prices of No. 1 Anthracite iron at Philadelphia, the prices from 1870 to 1878 inclusive reduced to gold basis. The prices are presumably based upon the long ton.

c From Mineral Industry, Vol. II, page 354, reduced to long ton.

d Computed.

e Estimated. Actual return not received.

f Revised figures.

TABLE 17.

Production and value of **Copper** in the United States.  
Gold Basis.

| YEAR  | Product<br>in Pounds | PRICE PER<br>POUND  |                 | Total Value<br>in Dollars | COMMODITY UNITS                                |                         |
|-------|----------------------|---------------------|-----------------|---------------------------|--|-------------------------|
|       |                      | Currency<br>\$<br>b | Gold<br>\$<br>b |                           | Price<br>per<br>Unit of<br>6,419 lb<br>\$<br>d | Number of<br>Units<br>d |
| 1870  | 28,224,000           | .206                | .179            | 5,063,386                 | 1.15   | 4,397,299               |
| 71    | 29,120,000           | .226                | .203            | 5,996,800                 | 1.30   | 4,536,896               |
| 72    | 28,000,000           | .33                 | .294            | 8,223,600                 | 1.885  | 4,362,400               |
| 70-72 | 85,344,000           | .....               | .225            | 19,183,786                | 1.443  | 13,296,595              |
| 73    | 34,720,000           | .29                 | .255            | 8,850,128                 | 1.636  | 5,409,376               |
| 74    | 39,200,000           | .232                | .209            | 8,192,800                 | 1.341  | 6,107,360               |
| 75    | 40,320,000           | .225                | .196            | 7,894,656                 | 1.257  | 6,281,856               |
| 76    | 42,560,000           | .21                 | .189            | 8,026,816                 | 1.211  | 6,630,848               |
| 77    | 47,040,000           | .186                | .178            | 8,359,008                 | 1.141  | 7,328,832               |
| 78    | 48,160,000           | .165                | .164            | 7,883,792                 | 1.051  | 7,503,328               |
| 79    | 51,520,000           | .171                | .171            | 8,809,920                 | 1.098  | 8,026,816               |
| 1880  | 60,480,000           | .....               | .19             | 11,491,200                | 1.22   | 9,422,784               |
| 81    | 71,680,000           | .....               | .17             | 12,175,600                | 1.09   | 11,167,744              |
| 82    | 91,646,232           | .....               | .174            | 16,038,091                | 1.123  | 14,278,483              |
| 83    | 117,151,795          | .....               | .154            | 18,064,807                | .989   | 18,252,250              |
| 84    | 145,221,934          | .....               | .122            | 17,789,687                | .786   | 22,625,577              |
| 85    | 170,962,607          | .....               | .107            | 18,292,999                | .687   | 26,635,974              |
| 86    | 161,235,381          | .....               | .103            | 16,527,651                | .658   | 25,120,472              |
| 87    | 185,227,331          | .....               | .114            | 21,115,916                | .732   | 28,858,418              |
| 88    | 231,270,662          | .....               | .146            | 33,833,954                | .939   | 36,031,969              |
| 89    | 231,246,214          | .....               | .116            | 26,907,809                | .747   | 36,028,160              |
| 1890  | 265,115,133          | .....               | .116            | 30,848,797                | .747   | 41,304,938              |
| 91    | 295,810,076          | .....               | .13             | 38,455,300                | .834   | 46,087,210              |
| 92    | 353,275,742          | .....               | .107            | 37,977,142                | .69  | 55,040,361              |
| 93    | 337,416,848          | .....               | .095            | 32,054,601                | .61  | 52,569,545              |
| 94    | .....                | .....               | .....           | .....                     | .....  | .....                   |
| 70-94 | 3,106,603,955        | .....               | .....           | 408,774,460               | .845   | 484,008,896             |
|       | True average..       |                     | .132            |                           |  |                         |
|       | Value of commodity   |                     | unit=           | .84736 ÷ .132 =           | 6.419  | lbs. Unit for Copper.   |
| 1894  | 360,844,218          | .....               | .092            | 33,141,142                | .589   | 56,219,529              |
| 95    | 381,106,868          | .....               | .102            | 38,682,346                | .651   | 59,376,450              |
| 73-95 | .....                | .....               | .....           | 461,414,162               | .787   | 586,308,280             |

a From 1870 to 1880 "Mineral Resources" 1883, page 215, reduced to pounds. From 1880 to 1893 inclusive, from Mineral Resources, 1893.

b To 1880 from Mineral Industry, Vol. II, Page 253, Lake Copper at N. Y., and from 1880 computed from amounts and values given in Mineral Resources.

c Computed to 1880. Below 1880 from Mineral Resources.

d Computed.



TABLE 18.

Production and value of **Silver** in the United States.  
Gold Basis.

| Year  | Product<br>in Troy Ounces | Price per Oz.<br>Gold<br>Commercial<br>Value<br>\$ | Commercial Value<br>in Dollars | COMMODITY UNITS                               |                      |
|-------|---------------------------|--|--------------------------------|---|----------------------|
|       |                           |  |                                | Price<br>per<br>Unit of<br>8140 oz<br>\$<br>c | Number of<br>Units   |
|       | <i>a</i>                  | <i>b</i>   | <i>c</i>                       |   | <i>c</i>             |
| 1870  | 12,375,360                | 1.328  | 16,434,478                     | 1.081   | 15,209,317           |
| 71    | 17,789,465                | 1.326  | 23,588,831                     | 1.079   | 21,863,250           |
| 72    | 22,254,002                | 1.322  | 29,419,791                     | 1.075   | 27,350,168           |
| 70-72 | 52,418,827                | 1.325  | 69,443,100                     | 1.078   | 64,422,737           |
| 73    | 27,665,712                | 1.298  | 35,910,094                     | 1.056   | 34,001,160           |
| 74    | 28,865,418                | 1.278  | 36,890,004                     | 1.04  | 35,475,599           |
| 75    | 24,533,993                | 1.246  | 30,569,355                     | 1.013   | 30,152,277           |
| 76    | 30,010,054                | 1.156  | 34,691,622                     | .941  | 36,882,356           |
| 77    | 30,783,509                | 1.201  | 36,970,994                     | .977  | 37,832,933           |
| 78    | 34,960,000                | 1.152  | 40,273,920                     | .937  | 42,965,840           |
| 79    | 31,550,000                | 1.123  | 35,430,650                     | .913  | 38,774,950           |
| 1880  | 30,320,000                | 1.145  | 34,716,400                     | .932  | 37,263,280           |
| 81    | 33,260,000                | 1.138  | 37,849,880                     | .926  | 40,876,540           |
| 82    | 36,200,000                | 1.136  | 41,123,200                     | .924  | 44,489,800           |
| 83    | 35,730,000                | 1.11   | 39,660,300                     | .903  | 43,912,170           |
| 84    | 37,800,000                | 1.113  | 42,071,400                     | .906  | 46,456,200           |
| 85    | 39,910,000                | 1.065  | 42,504,150                     | .867  | 49,049,390           |
| 86    | 39,685,513                | .995   | 39,487,085                     | .809  | 48,773,495           |
| 87    | 41,721,592                | .978   | 40,803,717                     | .796  | 51,275,837           |
| 88    | 45,792,682                | .939   | 42,999,328                     | .764  | 56,279,206           |
| 89    | <i>d</i> 51,354,839       | .935   | 48,016,774                     | .761  | 63,115,097           |
| 1890  | 54,517,440                | 1.046  | 57,025,242                     | .851  | 67,001,931           |
| 91    | 58,331,314                | .988   | 57,631,338                     | .804  | 71,689,185           |
| 92    | <i>e</i> 65,000,000       | .871   | 56,615,000                     | .709  | 79,885,000           |
| 93    | 60,500,000                | .78  | 47,190,000                     | .635  | 74,354,500           |
| 94    | <i>f</i> 45,230,000       | .635   | 28,721,050                     | .517  | 55,587,670           |
| 70-94 | 936,140,893               | .....  | 976,594,603                    | .847  | 1,150,517,156        |
|       | True average..            | 1.041  |                                |   |                      |
|       | Value of commodity unit=  |  | .84736 ÷ 1.041=                | \$1.40  | oz. Unit for Silver. |
| 1894  | <i>g</i> 49,846,875       | .635   | 31,652,766                     | .517  | 61,261,809           |
| 95    | <i>h</i> 47,000,000       | .654   | 30,738,000                     | .532  | 57,763,000           |
| 73-95 | .....                     | .....  | 940,821,219                    | .818  | 1,149,531,558        |

*a* From Mineral Industry, Vol. II, page 313.

*b* From U. S. Statistical Abstract, 1894, page 34. Same 1895, page 42.

*c* Computed.

*d* As compiled for Eleventh Census.

*e* As compiled for Mineral Industry. All quantities, except *d* and *e* agree nearly with the estimate of the director of the mint.

*f* Wells, Fargo & Co's estimate.

*g* Corrected for 1894, Mineral Industry.

*h* From Mineral Resources.

TABLE 19.

Production and value of **Anthracite Coal** in the United States.  
Gold Basis.

| Year  | Product in Tons<br>2000 lbs. | PRICE PER<br>TON         |                 | Total Value of<br>Product in Dollars | COMMODITY UNITS                                |                          |
|-------|------------------------------|--------------------------|-----------------|--------------------------------------|--|--------------------------|
|       |                              | Cur-<br>rency<br>\$<br>b | Gold<br>\$<br>b |                                      | Price<br>pr Unit<br>of .2407<br>ton<br>\$<br>c | Number of<br>Units<br>c  |
| 1870  | 15,650,275                   | 3.92                     | 3.41            | 53,367,438                           | .821   | 65,011,242               |
| 71    | 19,464,877                   | 3.98                     | 3.565           | 69,392,286                           | .858   | 80,857,099               |
| 72    | 24,734,172                   | 3.34                     | 2.97            | 73,160,791                           | .712   | 102,745,750              |
| 70-72 | 59,849,324                   | .....                    | 3 27            | 195,920,515                          | .788   | 248,614,091              |
| 73    | 25,626,631                   | 3.81                     | 3.35            | 85,849,214                           | .807   | 106,453,026              |
| 74    | 24,267,472                   | 4.06                     | 3.65            | 88,576,273                           | .879   | 100,807,079              |
| 75    | 23,120,730                   | 3.92                     | 3.41            | 78,841,689                           | .821   | 96,043,512               |
| 76    | 20,721,132                   | 3.45                     | 3.10            | 64,235,509                           | .743   | 86,075,582               |
| 77    | 23,327,560                   | 2.31                     | 2.205           | 51,437,270                           | .531   | 96,902,684               |
| 78    | 19,717,893                   | 2.875                    | 2.87            | 55,690,353                           | .68  | 81,908,128               |
| 79    | 29,279,811                   | 2.41                     | 2.41            | 70,564,345                           | .58  | 121,628,335              |
| 1880  | 26,249,711                   | .....                    | 4.04            | 106,048,832                          | .973   | 109,041,299              |
| 81    | 31,920,018                   | .....                    | 4.04            | 128,956,873                          | .973   | 132,595,755              |
| 82    | 32,614,507                   | .....                    | 4.12            | 134,371,769                          | .992   | 135,480,662              |
| 83    | 35,418,353                   | .....                    | 4.05            | 143,444,330                          | .975   | 147,127,838              |
| 84    | 36,558,478                   | .....                    | 3.95            | 144,405,988                          | .951   | 151,863,918              |
| 85    | 38,335,973                   | .....                    | 3.66            | 140,309,661                          | .881   | 159,247,632              |
| 86    | 39,035,446                   | .....                    | 3.57            | 139,356,542                          | .859   | 162,153,243              |
| 87    | 42,088,196                   | .....                    | 3.62            | 152,359,270                          | .871   | 174,834,366              |
| 88    | 46,619,564                   | .....                    | 3.76            | 175,289,561                          | .905   | 193,657,669              |
| 89    | 39,656,635                   | .....                    | 3.61            | 143,160,452                          | .869   | 164,733,662              |
| 1890  | 46,468,640                   | .....                    | 3.505           | 162,872,583                          | .844   | 193,030,731              |
| 91    | 50,665,431                   | .....                    | 3.44            | 174,289,083                          | .828   | 210,464,200              |
| 92    | 52,472,504                   | .....                    | 3.55            | 186,277,389                          | .854   | 217,970,782              |
| 93    | 53,810,214                   | .....                    | 3.48            | 187,259,545                          | .838   | 223,527,629              |
| 94    | d 53,810,214                 | .....                    | 3.48            | d 187,259,545                        | .838   | 223,527,629              |
| 70-94 | 851,634,437                  | .....                    | .....           | 2,996,776,591                        | .847   | 7,537,689,451            |
|       | True Average..               | .....                    | 3.52            |                                      |  |                          |
|       | Value of Comm odity          | unit=                    |                 | .84736 ÷ 3.52=                       | .2407  | ton. Unit for Ant. Coal. |
| 1894  | e 52,010,433                 | .....                    | 3.48            | 180,996,307                          | .838   | 216,051,339              |
| 95    | f 51,785,122                 | .....                    | 3.13            | 162,087,432                          | .753   | 215,115,397              |
| 73-95 | .....                        | .....                    | .....           | 2,956,680,270                        | .846   | 3,496,714,467            |

a From Mineral Industry, Vol. II, page 218.

b From U. S. Statistical Abstract, 1894, reduced to short tons. Prices at Philadelphia.

c Computed.

d Estimated. Return not received.

e Revised from Mineral Industry, Vol. III, page 130.

f From Mineral Resources Sheet, 1895.

TABLE 20.

Production and Value of **Bituminous Coal** in the United States.  
Gold Basis.

| Year  | Product in Tons<br>2,000 lbs.<br><br><i>a</i> | PRICE<br>PER TON                |                        | Value<br>in Dollars<br><br><i>c</i> | COMMODITY UNITS                                     |                                 |
|-------|---|---------------------------------|------------------------|-------------------------------------|---|---------------------------------|
|       |   | Cur-<br>rency<br>\$<br><i>b</i> | Gold<br>\$<br><i>b</i> |                                     | Price<br>per<br>Unit of<br>.3336<br>ton<br><i>c</i> | Number of Units<br><br><i>c</i> |
| 1870  | 17,353,040                                    | 4.215                           | 3.67                   | 63,685,657                          | \$1.224   | 52,024,414                      |
| 71    | 19,843,933                                    | 4.215                           | 3.67                   | 72,827,234                          | 1.224   | 59,492,111                      |
| 72    | 25,675,866                                    | 4.16                            | 3.70                   | 95,000,704                          | 1.234   | 76,976,246                      |
| 70-72 | 62,872,839                                    | .....                           | 3.68                   | 231,513,595                         | 1.229   | 188,492,771                     |
| 73    | 29,474,307                                    | 4.32                            | 3.80                   | 112,002,367                         | 1.268   | 88,363,972                      |
| 74    | 27,369,533                                    | 4.02                            | 3.61                   | 98,804,014                          | 1.204   | 82,053,860                      |
| 75    | 30,000,299                                    | 3.88                            | 3.38                   | 101,401,011                         | 1.127   | 89,940,896                      |
| 76    | 30,607,085                                    | 3.455                           | 3.10                   | 94,881,963                          | 1.034   | 91,760,041                      |
| 77    | 34,044,429                                    | 2.81                            | 2.68                   | 91,239,070                          | .894  | 102,065,198                     |
| 78    | 34,787,541                                    | 2.55                            | 2.53                   | 88,012,479                          | .845  | 104,293,048                     |
| 79    | 38,909,819                                    | 2.49                            | 2.49                   | 96,885,449                          | .831  | 116,651,637                     |
| 1880  | 47,398,286                                    | .....                           | 3.35                   | 158,784,258                         | 1.117   | 142,100,061                     |
| 81    | 56,327,412                                    | .....                           | 3.35                   | 188,696,830                         | 1.117   | 168,869,581                     |
| 82    | 65,588,241                                    | .....                           | 3.13                   | 205,291,194                         | 1.044   | 196,633,547                     |
| 83    | 72,663,765                                    | .....                           | 2.59                   | 188,199,151                         | .864  | 217,845,967                     |
| 84    | 73,836,730                                    | .....                           | 2.23                   | 164,655,908                         | .744  | 221,362,516                     |
| 85    | 74,273,838                                    | .....                           | 2.01                   | 149,290,414                         | .67   | 222,672,966                     |
| 86    | 75,624,846                                    | .....                           | 1.875                  | 141,796,586                         | .625  | 226,723,288                     |
| 87    | 88,887,109                                    | .....                           | 3.08                   | 273,772,296                         | 1.027   | 266,483,553                     |
| 88    | 98,850,642                                    | .....                           | 2.32                   | 229,333,489                         | .773  | 296,354,225                     |
| 89    | 98,460,067                                    | .....                           | 2.32                   | 228,427,355                         | .774  | 295,183,281                     |
| 1890  | 109,604,971                                   | .....                           | 2.32                   | 254,283,533                         | .774  | 328,595,703                     |
| 91    | 118,878,517                                   | .....                           | 2.32                   | 275,798,159                         | .774  | 356,397,794                     |
| 92    | 127,926,713                                   | .....                           | 2.23                   | 285,276,570                         | .744  | 383,524,286                     |
| 93    | 127,049,296                                   | .....                           | 2.14                   | 271,885,493                         | .714  | 380,893,789                     |
| 94    | <i>d</i> 127,049,296                          | .....                           | 2.01                   | 255,369,085                         | .67   | 380,893,789                     |
| 70-94 | 1,650,485,581                                 | .....                           | .....                  | 4,185,600,269                       | .846  | 4,948,155,769                   |
|       | True average,<br>Value of comm                | odity                           | 2.54<br>unit=          | .84736 ÷ 2.54 =                     | .3336   | ton. Unit Bitum. Coal.          |
| 1894  | <i>e</i> 117,950,348                          | .....                           | 2.01                   | 237,080,199                         | .670  | 353,615,143                     |
| 95    | <i>f</i> 135,118,193                          | .....                           | 1.79                   | 241,861,565                         | .597  | 405,084,343                     |
| 73-95 | .....   | .....                           | .....                  | 4,177,659,353                       | .813  | 5,137,468,695                   |

*a* Mostly bituminous, by difference between "Total Coal" and "Pennsylvania Anthracite." See Mineral Industry, Vol. II, page 213.

*b* Average price for Cumberland coal at Baltimore, reduced to short tons.

*c* Computed.

*d* Estimated, return not received.

*e* Revised from Mineral Industry, Vol. III, page 130.

*f* From Mineral Resources sheet, 1895.

TABLE 21.

Production and Value of **Petroleum** in the United States.  
Gold Basis.

| Year               | Product<br>in Barrels | PRICE PER<br>BARREL      |                  | Value<br>in Dollars | COMMODITY UNITS                               |                         |
|--------------------|-----------------------|--------------------------|------------------|---------------------|---|-------------------------|
|                    |                       | Cur-<br>rency<br>\$<br>b | Gold<br>\$<br>c  |                     | Price<br>per<br>Unit of<br>.9489<br>bbl<br>\$ | Number of<br>Units      |
|                    | <i>a</i>              |                          |                  | <i>d</i>            |   |                         |
| 1870               | .....                 | .....                    | .....            | .....               | .....   | .....                   |
| 71                 | 5,205,234             | 4.34                     | 3.88             | 20,196,308          | 3.68  | 5,486,317               |
| 72                 | 6,203,194             | 3.64                     | 3.24             | 20,359,949          | 3.074   | 6,633,026               |
| 70-72              | 11,498,428            | .....                    | 3.53             | 40,586,257          | 3.35  | 12,119,343              |
| 73                 | 9,844,744             | 1.83                     | 1.61             | 15,850,038          | 1.528   | 10,376,360              |
| 74                 | 10,926,945            | 1.17                     | 1.05             | 11,473,292          | .996  | 11,517,000              |
| 75                 | 8,787,506             | 1.35                     | 1.17             | 10,291,372          | 1.11  | 9,262,031               |
| 76                 | 8,968,906             | 2.56                     | 2.30             | 20,623,474          | 2.18  | 9,453,227               |
| 77                 | 13,135,475            | 2.42                     | 2.31             | 30,342,947          | 2.192   | 13,844,791              |
| 78                 | 15,163,462            | 1.19                     | 1.18             | 17,892,885          | 1.12  | 15,982,289              |
| 79                 | 19,785,176            | .859                     | .859             | 16,995,466          | .815  | 20,853,576              |
| 1880               | 26,286,123            | .....                    | .92              | 24,183,233          | .873  | 27,705,574              |
| 81                 | 27,661,238            | .....                    | .92              | 25,448,339          | .873  | 29,151,945              |
| 82                 | 30,510,830            | .....                    | .789             | 24,065,988          | .748  | 32,158,415              |
| 83                 | 23,449,633            | .....                    | 1.10             | 25,790,252          | 1.044   | 24,715,913              |
| 84                 | 24,218,438            | .....                    | .851             | 20,591,966          | .807  | 25,526,234              |
| 85                 | 21,847,205            | .....                    | .879             | 19,198,243          | .834  | 23,026,954              |
| 86                 | 28,064,841            | .....                    | .712             | 19,996,313          | .676  | 29,580,342              |
| 87                 | 28,273,866            | .....                    | .667             | 18,877,094          | .63   | 29,805,925              |
| 88                 | 27,612,025            | .....                    | .649             | 17,947,620          | .616  | 29,103,074              |
| 89                 | 35,163,513            | .....                    | .767             | 26,963,340          | .727  | 37,062,343              |
| 1890               | 45,822,672            | .....                    | .772             | 35,365,105          | .73   | 48,297,496              |
| 91                 | 54,291,980            | .....                    | .56              | 30,526,553          | .533  | 57,223,747              |
| 92                 | 50,509,136            | .....                    | .51              | 25,901,436          | .486  | 53,236,629              |
| 93 <sup>e</sup>    | 50,349,228            | .....                    | .64 <sup>f</sup> | 32,223,505          | .607  | 53,068,087              |
| 94                 | .....                 | .....                    | .....            | .....               | .....   | .....                   |
| 70-94              | 572,176,370           | .....                    | .....            | 511,143,728         | .848  | 603,073,894             |
| True average..     | .....                 | .....                    | .893             | .....               | .....   | .....                   |
| Value of commodity | .....                 | .....                    | unit=            | .84736 ÷ .893 =     | .9489   | bbl. Unit for Petroleum |
| 1894 <sup>g</sup>  | 49,344,516            | .....                    | .720             | 35,522,095          | .683  | 52,009,120              |
| 95 <sup>g</sup>    | 52,983,526            | .....                    | 1.089            | 57,611,279          | 1.033   | 55,844,640              |
| 73-95              | .....                 | .....                    | .....            | 563,770,845         | .807  | 698,803,311             |

*a* From 1871 to 1879 inclusive, from Mineral Resources, 1883, page 201, and from 1880 to 1892 inclusive, from Mineral Resources, 1892, pages 9 to 11.

*b* From Mineral Resources, 1883, page 203.

*c* Computed from *b* to 1879. From 1880 computed from *a* and *d*.

*d* To 1880 computed. From 1881 Mineral Resources.

*e* From Mineral Industry, Vol. II, page 527.

*f* Computed from *c* and *e*.

*g* From Mineral Resources.

TABLE 22.

Showing the number of commodity units, the value per unit and the total value of the 21 principal productions of the United States based upon an average valuation of \$1.00 per unit for all articles for the period 1870 to 1872 inclusive. Also showing for each year the difference between actual value and value at prices prevailing during the period 1870 to 1872 inclusive, or the amount of the depreciation. All values in gold.

| Year  | Number of Commodity Units | Price per Unit | Actual Value 21 Principal Commodities in U. S. Dollars | Difference between Actual Values and Values at Prices of 1870-72 Dollars |
|-------|---------------------------|----------------|--|--|
| 1870  | 3 202,443,041             | \$ 1.021       | 3,270,126,820  | .....  |
| 71    | 3,270 876,852             | 1.023          | 3,346,450,218  | .....  |
| 72    | 3,468,611,441             | .958           | 3,325,036,677  | .....  |
| 70-72 | 9,941,613,715             | 1.00           | 9,941,613,715  | .....  |
| 73    | 3 558,282 287             | .9413          | 3,349,418,984  | 208,863,303  |
| 74    | 3,513,204,400             | .9687          | 3,403,083,705  | 110,120,695  |
| 75    | 3,809 422,121             | .8438          | 3,214,185,646  | 595,236,475  |
| 76    | 3 891,648,588             | .8314          | 3,235,681,229  | 655,967,359  |
| 77    | 4,127,233,309             | .8146          | 3,362,187,716  | 765,045,593  |
| 78    | 4,416,789,862             | .7587          | 3 351,494,426  | 1,065 295,436  |
| 79    | 4,703,564,990             | .7774          | 3,657,046,161  | 1,046 518,829  |
| 1880  | 4,936,037 367             | .8493          | 4,192 446 469  | 743,590,898  |
| 81    | 4,731,811,889             | .9717          | 4 597 951,799  | 133 860,090  |
| 82    | 5,203 963,049             | .9160          | 4 766,699,663  | 437 263,386  |
| 83    | 5,513,852 771             | .9150          | 5,045,259,380  | 468 593,391  |
| 84    | 5 753,472 553             | .8634          | 4,967,177,449  | 786 295,104  |
| 85    | 5,714 026,325             | .8542          | 4 880 809,153  | 833 217,172  |
| 86    | 5 827,289,782             | .8251          | 4 807 944 254  | 1,019,345,528  |
| 87    | 5 842 169,128             | .8785          | 5 131,615,486  | 710 553,642  |
| 88    | 6 358 245,861             | .8234          | 5 234 894,670  | 1,123,351,191  |
| 89    | 5 871,500,790             | .7856          | 4,613 166,186  | 1,258 334,604  |
| 1890  | 5,667 452,687             | .8537          | 4 838 250,909  | 829 201,778  |
| 91    | 6 327,323 148             | .8018          | 5,073,835,731  | 1,253,487,417  |
| 92    | 6,248,573,370             | .7641          | 4,774,512 107  | 1 474,071,263  |
| 93    | 6,878,957,898             | .7619          | 5,241,158,445  | 1,637,799 453  |
| 94    | a 6,529,595,072           | .7141          | 4,663,500,762  | 1,866,094,310  |
| 73-94 | 115,424 417,247           |                | 96,402,320,330   |  |
| 94    | b 6 600,489,401           | .7130          | 4,706,206,123  | 1,894,283,278  |
| 95    | c 7,269,586,347           | .5870          | 4,267,047,027  | 3,002,539 320  |
| 70-95 | 132,706 511,638           | .834           | 110,653,676,433  | 22,052,835,205   |
| 73-95 | 122,764 897,923           | .820           | 100,712,062,718  | 22,052,835,205   |

a Pig iron, silver, anthracite and bituminous coal estimated and estimate used in determination of common value of commodity unit.

b Revised and complete.

c Complete except tobacco.

## DIAGRAM 22-a.

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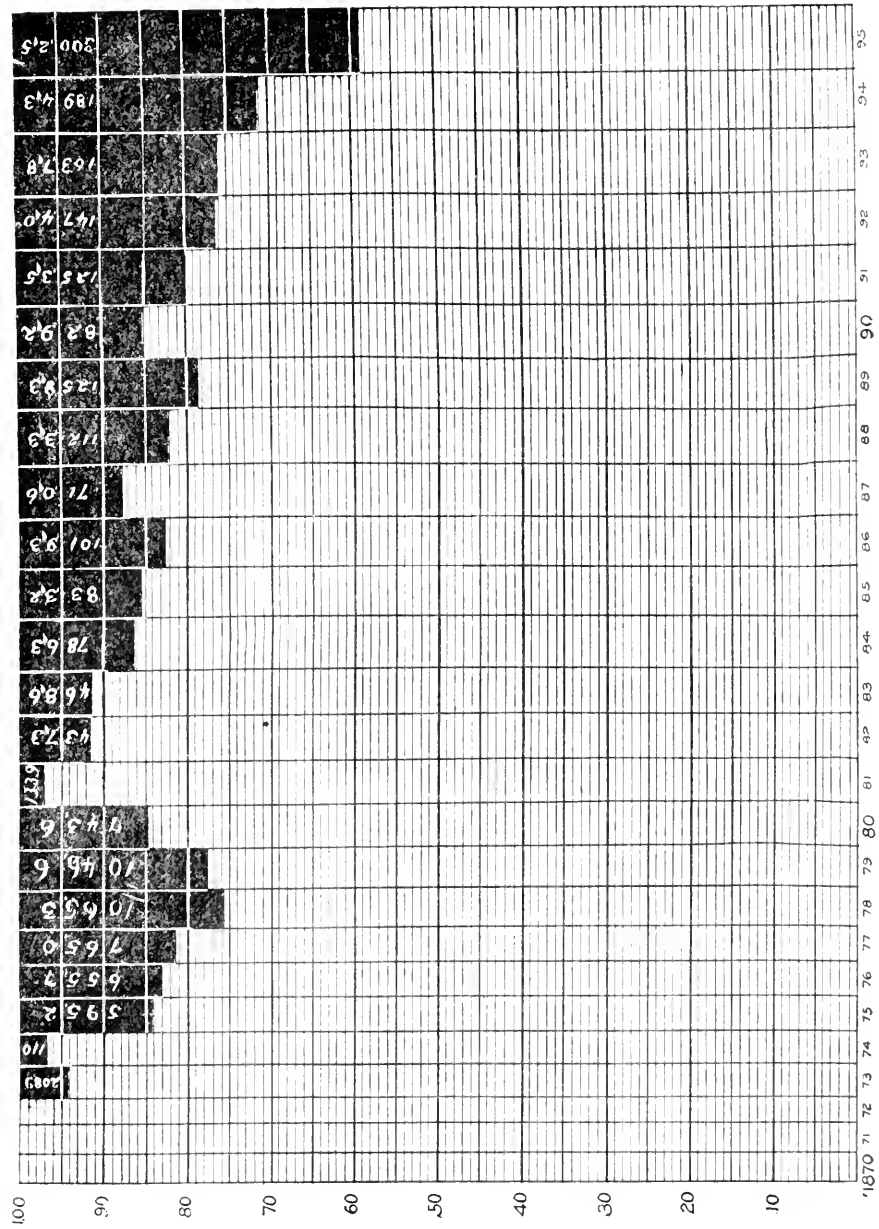
Showing the average price per commodity unit of 21 principal productions of the United States for years 1870-95 inclusive, based upon a valuation of one dollar per unit for the period 1870-71-72.

The height of the space allotted to each year shows the price per unit, while the width of the space is made proportional to the total number of units for that year, hence the area of the white space represents the total actual value for the year, and the shaded area shows the difference between actual value and value at prices prevailing during the period 1870-71-72.

The figures in the shaded parts are millions of dollars and represent for each year the depreciation on 21 commodities. All values are in gold.

The commodities made use of are:

|        |          |        |        |             |             |            |
|--------|----------|--------|--------|-------------|-------------|------------|
| Wheat  | Corn     | Oats   | Barley | Potatoes    | Hay         | Tobacco    |
| Cotton | Wool     | Horses | Mules  | Milch Cows  | Oxen        | Sheep      |
| Swine  | Pig Iron | Copper | Silver | Anthr. Coal | Bitum. Coal | Petroleum. |



# DIAGRAM 22

Showing gold price per unit  
and number of commodity units produced

21 ARTICLES

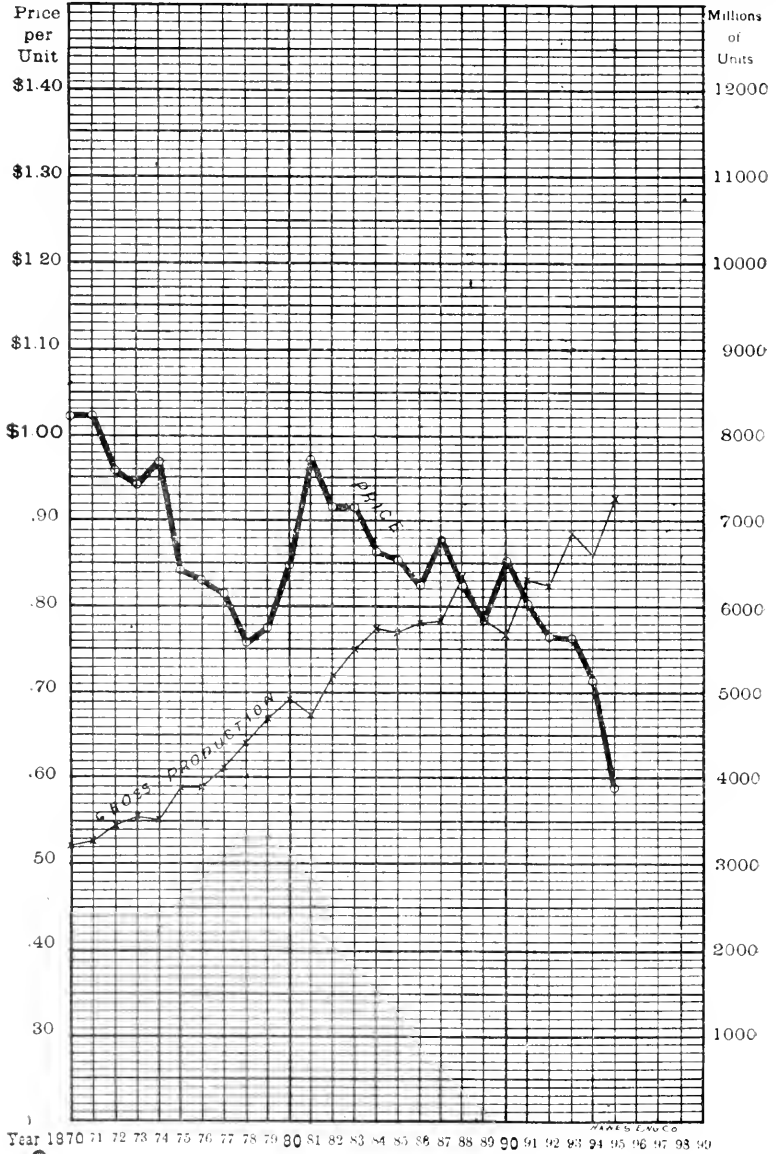




TABLE 23.


## INDEX NUMBERS.


Comparison and combination of seven systems, six reduced to a basis of 1870-1872, inclusive=100, and one system upon basis 1867-1877=100.

| YEAR | UNITED STATES                        |                               | BRITISH   |  | FRENCH                 | GERMAN                      | INDIAN   | Arithmetical<br>Average | YEAR |
|------|--------------------------------------|-------------------------------|---|--|------------------------|-----------------------------|--|-------------------------|------|
|      | This<br>Paper<br>21 Com-<br>modities | Treasury<br>Dept.<br>8 Groups | London<br>Econ.<br>47<br>Articles<br>22 Classes | Sauer-<br>beck<br>45<br>Articles<br>Basis<br>1867-77<br>=100 | Soetbeer<br>22 Classes | Soetbeer<br>114<br>Articles | Palgrave<br>7 Articles<br>Prices<br>Reduced<br>to Gold |                         |      |
| 1870 | 102.1                                | 95.8                          | 98.0  | 96.0   | 91.5                   | 95.6                        | 101.0  | 97.3                    | 1870 |
| 71   | 102.3                                | 100.4                         | 97.3  | 100.0  | 102.9                  | 98.9                        | 95.3   | 99.5                    | 71   |
| 72   | 95.8                                 | 103.9                         | 104.7   | 109.0  | 105.6                  | 105.5                       | 97.0   | 102.1                   | 72   |
| 73   | 94.1                                 | 99.6                          | 109.9   | 111.0  | 105.2                  | 107.6                       | 97.8   | 102.3                   | 73   |
| 74   | 96.9                                 | 97.5                          | 108.4   | 102.0  | 97.2                   | 106.0                       | 102.2  | 101.5                   | 74   |
| 75   | 84.4                                 | 92.6                          | 103.1   | 96.0   | 95.4                   | 101.1                       | 85.2   | 94.0                    | 75   |
| 76   | 83.1                                 | 85.6                          | 100.4   | 95.0   | 95.6                   | 99.9                        | 85.0   | 92.1                    | 76   |
| 77   | 81.5                                 | 85.3                          | 101.4   | 94.0   | 96.4                   | 99.4                        | 94.8   | 93.3                    | 77   |
| 78   | 75.9                                 | 81.6                          | 93.8  | 87.0   | 91.9                   | 93.9                        | 104.3  | 89.8                    | 78   |
| 79   | 77.7                                 | 78.9                          | 82.3  | 83.0   | 87.6                   | 91.1                        | 104.1  | 86.4                    | 79   |
| 1880 | 84.9                                 | 87.3                          | 94.2  | 88.0   | 88.6                   | 94.9                        | 93.8   | 90.2                    | 1880 |
| 81   | 97.2                                 | 86.3                          | 87.5  | 85.0   | 86.9                   | 94.2                        | 83.1   | 88.6                    | 81   |
| 82   | 91.6                                 | 88.6                          | 89.9  | 84.0   | 84.8                   | 95.1                        | 75.2   | 87.0                    | 82   |
| 83   | 91.5                                 | 86.6                          | 86.2  | 82.0   | 80.3                   | 95.1                        | 84.5   | 86.6                    | 83   |
| 84   | 86.3                                 | 81.2                          | 81.5  | 76.0   | .....                  | 88.9                        | 84.9   | 83.1                    | 84   |
| 85   | 85.4                                 | 75.9                          | 76.1  | 72.0   | .....                  | 84.6                        | .....  | 78.8                    | 85   |
| 86   | 82.5                                 | 75.0                          | 73.8  | 69.0   | .....                  | 81.7                        | .....  | 76.4                    | 86   |
| 87   | 87.9                                 | 75.6                          | 75.2  | 68.0   | .....                  | .....                       | .....  | 76.7                    | 87   |
| 88   | 82.3                                 | 76.9                          | 81.4  | 70.0   | .....                  | .....                       | .....  | 77.6                    | 88   |
| 89   | 78.6                                 | 76.9                          | 79.8  | 72.0   | .....                  | .....                       | .....  | 76.8                    | 89   |
| 1890 | 85.4                                 | 75.4                          | 81.6  | 72.0   | .....                  | .....                       | .....  | 78.6                    | 1890 |
| 91   | 80.2                                 | 75.3                          | 81.2  | 72.0   | .....                  | .....                       | .....  | 77.2                    | 91   |
| 92   | 76.4                                 | .....                         | 77.9  | 68.0   | .....                  | .....                       | .....  | 74.1                    | 92   |
| 93   | 76.2                                 | .....                         | 77.4  | 68.0   | .....                  | .....                       | .....  | 73.9                    | 93   |
| 94   | 71.3                                 | .....                         | 76.0  | 63.0   | .....                  | .....                       | .....  | 70.1                    | 94   |
| 1895 | 58.7                                 | .....                         | 70.2  | 62.0   | .....                  | .....                       | .....  | 63.6                    | 1895 |

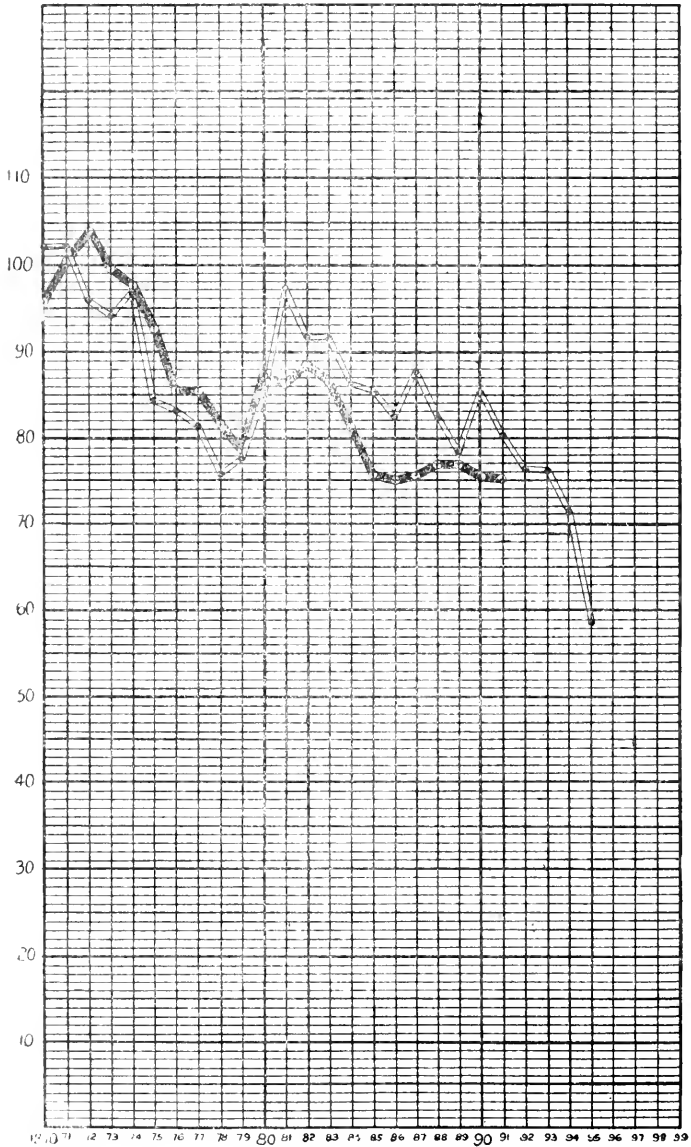
NOTE—Since the completion of the cuts of the Diagram of Table 23 the Sauerbeck numbers for '70, '71 and '72 have been received, and show the series as above printed to be too high by 1.7 in '70-72 to 1. in '95. In Diagram 23c the black line in 1895 should be at 63.6 instead of 64.5 as shown.

# DIAGRAM 23 INDEX NUMBERS

U S Treasury Department 8 Groups  United States

Daggett 21 Commodities  " "

Basis 1870 - 72 = 100



# DIAGRAM-23-a INDEX NUMBERS

*London Economist 47 Articles* —●— (British)  
*Saurbeck 45 Articles* —■—  
 Basis 1870-72 100 and 1867-77 = 100



## DIAGRAM 23-b

## INDEX NUMBERS

Soetbeer 22 Classes

114 Articles

Palgrave 7

Basis 1870 72 100

—●—

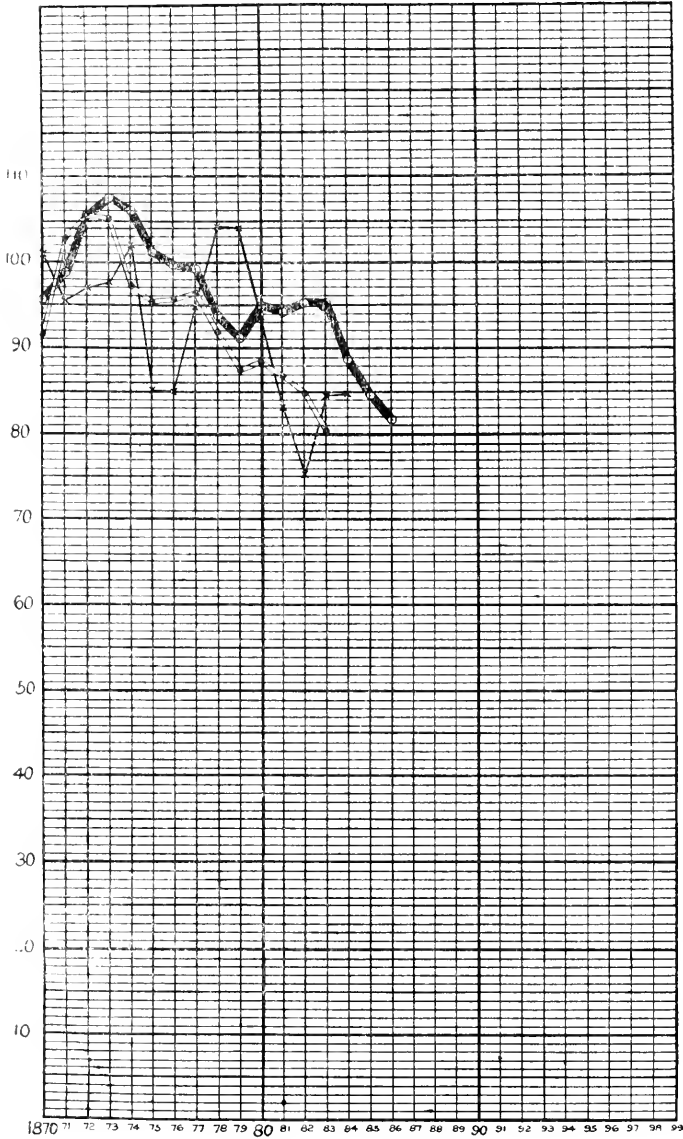
—○—

—×—

French

German

Indian



# DIAGRAM 23-c INDEX NUMBERS

*Artificial Coal Average 7 Systems*

*Silver U.S. Coining Value (17929 per oz) - 100*

*Base Index Numbers 1870-72 = 100*

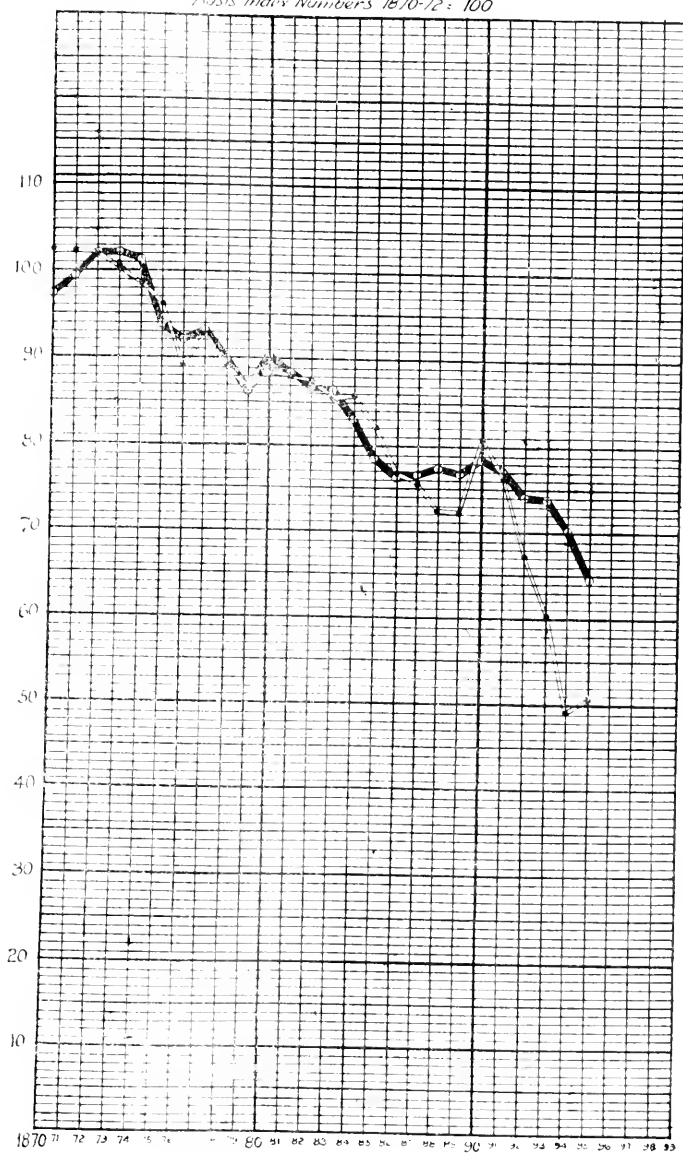


TABLE 26,

Showing total amount of gold in the civilized world, after Soetbeer; gold in the great government banks of Europe and Australia; total circulating gold in civilized countries; the approximate population of gold standard and double standard countries and the circulating gold per capita.

| YEAR | MILLIONS OF DOLLARS |                              |                           | GOLD AND DOUBLE STANDARD COUNTRIES |                             |
|------|---------------------|------------------------------|---------------------------|------------------------------------|-----------------------------|
|      | Total Gold in World | Gold in the Government Banks | Total Gold in Circulation | Population Millions                | Circulating Gold per Capita |
|      | <i>a</i>            | <i>b</i>                     | <i>a-b</i>                | <i>c</i>                           | $(a-b) \div c$              |
| 1870 | 2555                | 312                          | 2243                      | 199                                | 11.3                        |
| 71   | 2606                | 417                          | 2189                      | 202                                | 10.8                        |
| 72   | 2658                | 564                          | 2094                      | 205                                | 10.2                        |
| 73   | 2709                | 611                          | 2098                      | 258                                | 8.1                         |
| 74   | 2761                | 705                          | 2056                      | 262                                | 7.8                         |
| 75   | 2812                | 748                          | 2064                      | 265                                | 7.8                         |
| 76   | 2863                | 800                          | 2063                      | 268                                | 7.7                         |
| 77   | 2915                | 689                          | 2226                      | 274                                | 8.1                         |
| 78   | 2966                | 675                          | 2291                      | 277                                | 8.3                         |
| 79   | 3018                | 630                          | 2388                      | 281                                | 8.5                         |
| 1880 | 3069                | 629                          | 2440                      | 284                                | 8.6                         |
| 81   | 3092                | 626                          | 2466                      | 287                                | 8.6                         |
| 82   | 3115                | 707                          | 2408                      | 290                                | 8.3                         |
| 83   | 3137                | 817                          | 2320                      | 294                                | 7.9                         |
| 84   | 3160                | 848                          | 2312                      | 297                                | 7.8                         |
| 85   | 3183                | 863                          | 2320                      | 300                                | 7.7                         |
| 86   | 3212                | 884                          | 2328                      | 303                                | 7.7                         |
| 87   | 3240                | 905                          | 2335                      | 306                                | 7.6                         |
| 88   | 3273                | 926                          | 2347                      | 309                                | 7.6                         |
| 89   | 3317                | 947                          | 2370                      | 312                                | 7.6                         |
| 1890 | 3357                | 971                          | 2386                      | 315                                | 7.6                         |
| 91   | 3408                | 1112                         | 2296                      | 361                                | 6.4                         |
| 92   | 3474                | 1232                         | 2242                      | 365                                | 6.1                         |
| 93   | 3583                | 1217                         | 2366                      | 369                                | 6.4                         |
| 94   | 3699                | 1388                         | 2311                      | 373                                | 6.2                         |
| 95   | 3862                | 1551                         | 2311                      | 380                                | 6.1                         |

*e* Muhleman's Monetary System of the World, page 155.

*f* Economist. Quoted from J. F. Vaile, for beginning of 1866.

## Diagram 26.

Showing amount of gold, total and circulating, in civilized countries, and the population of gold standard countries, of gold and double standard countries and of gold double and silver standard countries.

Total gold represented by dotted line.

Circulating gold represented by line with circles.

Population of gold standard countries by single line.

Population of gold and double standard countries by double line.

Population of gold double and silver standard countries by triple lines.

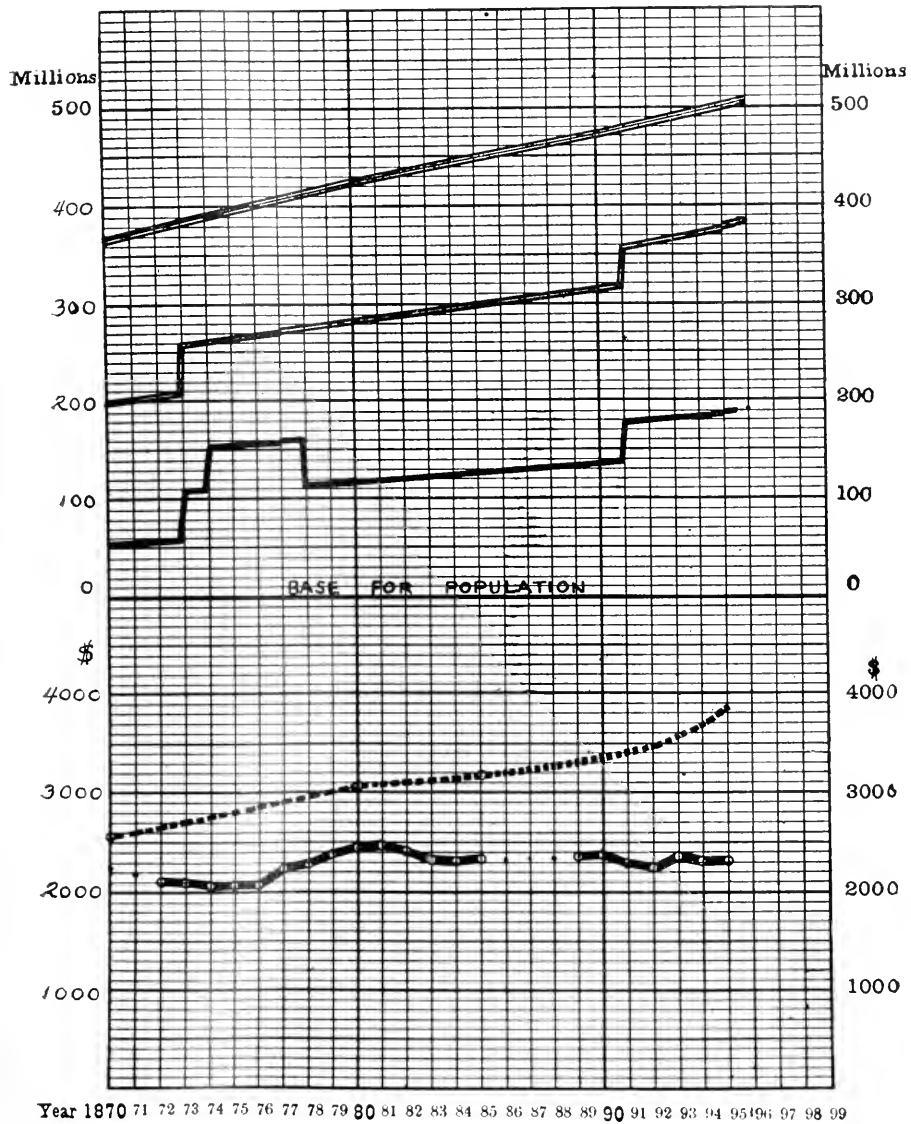


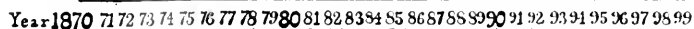
TABLE 27,

Showing the world's product of silver for the years given, as per U. S. Mint Report; also, an estimate of the non-monetary use; the effective monetary supply; the coining and commercial value of the stock of silver in civilized countries; also, the population; the circulating gold and the commercial value of the silver, total and per capita, for civilized countries, for years 1872 to 1895, inclusive.

[illegible]



Index numbers *Worlds Prices*



Total value of circulating Gold and Silver in civilized countries

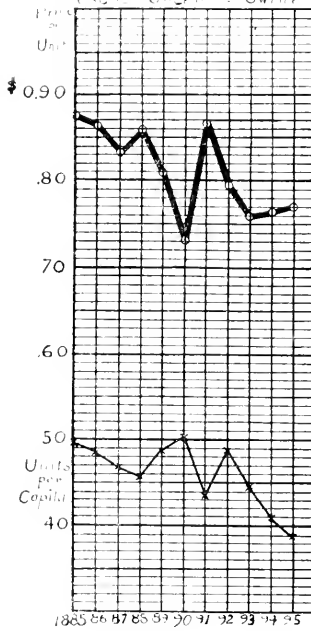
... coming value of silver in civilized countries

Commercial - " " " "

# DIAGRAM - 25. PRICE & CONSUMPTION PER CAPITA (IN UNITS)

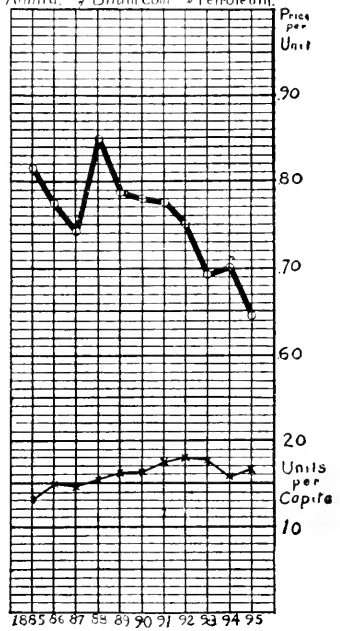
## FOOD PRODUCTS

Wheat, Corn, Oats, Milk, Cows,  
Pork, Sheep, & Swine



## MANUFACTURING PRODUCTS

Cotton, Wool, Pig Iron, Copper,  
Anthracite, Bitum Coal, & Petroleum









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